



Pre-Assessment Tasks

for BTEC Nationals Health and Social Care Unit 14: Physiological Disorders and their Care

For Pearson BTEC Level 3 National in Health and Social Care:

Extended Certificate (601/7197/2)

Foundation Diploma (601/7199/6)

Diploma (601/7194/7)

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Extended Diploma in Health Studies

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Teacher's Introduction

These activities are designed to provide opportunities for students to try out their classroom learning, prior to starting their assignments. They're intended to test out knowledge, so that teachers and students can identify gaps in learning, and also to consolidate and apply knowledge to specific circumstances, such as through case studies.

Many of them involve group or paired working, which allows students to talk topics through and learn from each other. The case studies offer examples that may be used in written coursework or at least give an opportunity to consider the impact of physiological disorders on all aspects of a service user's health and well-being.

There is an activity for each point on the specification, trying to include visual, auditory and kinaesthetic elements. Visual, because they all involve reading, images and writing, such as an email. Auditory, because groups and pairs require students to talk to each other and share their ideas and knowledge. Kinaesthetic, because many of them involve making or doing something, such as matching, pairing or making a mind map.

Each activity is designed to be short and stimulating, but some offer opportunities to extend the activities through relevant discussions and extension tasks.

August 2019

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Specification Reference Table

This table will enable you to pick and choose how to use these activities, either as knowledge before teaching a topic) or as plenaries (i.e. to consolidate knowledge topic) relevant to the specification topic you are teaching. While each activity has or a plenary you should be aware that many starter and plenary tasks may be integrated to the content of the specification. Some may not as well as a started discretion when to use each task.

Specification reference	7	Activity	R
79 Lari	ning	Aim A: Investigate the causes and effects of physi	
education	1	Endocrine system disorders: Match up	
	2	Endocrine system disorders (diabetes type 2): Case study (Email)	
	3	Nervous system disorders (Parkinson's disease and dementia): multi-choice quiz	
A1: Types of	4	Musculoskeletal disorders (rheumatoid arthritis): 'How much do you know?'	
physiological disorders and effects on body systems and functions	5	Respiratory system disorders (chronic obstructive pulmonary disease (COPD) and asthma: Case study and review *	
	6	Circulatory system disorders: Define and question	
	7	Cancer (bowel and prost-te n er): Black and green mind map	B G
	8	Impact of and health: 'Have a chat' case study	
	۔ ا ا	Inherited traits: Match-up	
Education	10	Lifestyle choices: 'Speed talking'	St
A2: Causes of physiological disorders	11	Diet: 'Dietary bingo'	
	12	Environment (housing): 'Spin the wheel'	
	13	Environment (air pollution): 'Fishbone'	
A3: Signs and symptoms of physiological disorders	14	Signs and symptoms experienced by the individual: Timed multi-choice quiz	
Learning) Ain	B: Examine the investigation and diagnosis of pl	iysic
B1: Investigative	15	General measurements. M. Ca-up	
procedures for physiological disorders	16	In a ppropriate for each individual:	
B2: D 719 vic	17	Procedures based on specific signs and symptoms: 'Speed dating'	S:
physiological disorders	18	Importance of recognising non-specific or confusing symptoms: Case study (letter)	

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Specification Reference		Activity	T
Learning Aim	C: E	ramine treatment and support for service users w	ith
	19	Medication: Black and green mind map	
	20	Surgery: Define and cloze paragraph	
C1: Provision of treatment and support	21	Rehabilitation programmers: Case study and advice	
		om) நட ாtary therapies: Advantages and நடைdvantages	
Zig Zig Education	23	Advice on lifestyle changes: Spider diagrams	
	24	Professional carers: Keyword paragraph	
C2: Types of carers and care settings	25	Informal carers: Case study (email)	
	26	Private and voluntary carers: 'How much do you know?'	
	27	Care settings: Advantages and disadvantages	
	28	Care settings: 'Pass the hat'	
Learning Aim D: Dev	elop	a treatment plan for service users with physiolog	ica
	29	Assessment of care needs: Caso study (letter)	
D1: Care methods and	30	Reviewing care needs a study (home visit)	
D1: Care methods and strategies	31	Validity and a label of sources of info in possible treatments: Article and	
700	32	Cycle of planning: Black and green mind map	
Educado	33	Individual needs, including culture, gender, age, religion and disability: Case study and meet *	
D2: Treatment planning	34	The purpose and aim of care for an individual, outcomes to be achieved and actions to be taken: Case study and action	
processes	35	Overcoming potential barriers: Case study and email	
	36	Professional responsibilities: Keyword paragraph	
	37	Advantages and disadvantages of different types of treatment: Case studied and decide	
	38	Scheduling and times all is or achievement:	

Activities marked with Activities extension activities.





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Activity 1 - Endocrine system disorders

Teacher's notes

	Plenary Activity: Match-up
Aim of the activity	To encourage students to use their knowinge of anatomy, phy hypothyroidism and hyperthyroidism work out the effects of systems.
Teacher the instructions	Prior to less (a) t (b): The (c) a deephotocopied on to card and laminated, for re During lesson: Get students into pairs or small groups. Hand each pair or group match up (by colour-coding and numbering) the disorders, with
	Then check through student answers as a group. Note that some than one disorder.
	This activity should take no longer than 15 minutes.

Answers

Disorder	Effects	Reaso
Diabetes types 1 and 719 2100	14. Poor circulation, especially in hands and feet, leading to tissue damage and possible amputations 2. Increased likelihood of a stroke	In types 1 and 2 diabetes, raised levels cause damage to the blood vessel was deposits and plaque being laid down. This will are plood vessels to be penning be oxygenated blood can rediabetes, cause damage to the blood risk of fatty deposits and plaque being This will cause the blood vessels to be meaning less oxygenated blood can rediabetes, raised levels of sugar in the bloodstream of the blood risk of fatty deposits and plaque being this will cause the blood vessels to be meaning less oxygenated blood can rediabetes are linear through the blood research to be meaning less oxygenated blood can rediabetes are linear through the blood research through the blood rediabetes are linear through through the blood rediabetes are linear through through the blood
	13. Eyesight problems	In types 1 and 2 diabetes, raised blood individual also has raised blood press tiny blood vessels in this part of the bo
Diabetes types 1 and 2 Hypothyroidism	15. Heart disease	Thyroxine (thyroid hormone) plays a respectively heart muscle strong and maintaining hypothyroidism reduces thyroxine level eventually weakening the cardiac musclailure. In type 1 are diabetes, high levels of the blood vessels a down.
	5. Problems in pregnancy	For a woman with type 1 or 2 diabetes pregnancy cause the body to need mounstable blood sugars. There may be and also of the mother having a larger problems during labour as the baby muthe pelvis, making a caesarean section
		The body will also need more thyroxing levels, which a healthy thyroid gland w

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Disorder	Effects	
	6. Myxoedema	Thyroxine helps the body to ma
	coma	contributes to temperature mai
		Thyroid hormone is essential f
	3. Tiredness	metabolic rate, causing the ind
		body temperature, dry skin an
	2. Disturbance to	Thyroid hormones help contro
	menstrual cycle	lead to her lier and longer per
Hypothyroidism		lin is wen depression and
	7. Low mood a	fc many years. While the exa
	depresion	is a complex interplay betwee
		structures and proteins in the
	<i> - </i>	The most common cause of th
79	11. Goitre	However, it can also be caused
Education		hormone, fluid-filled nodules,
		Hyperthyroidism may lead to
	4 11	heart rate. This is because the
	4. Heart problems	the cells in the cardiac muscle,
		effectively.
	2. Osteoporosis	Raised levels of thyroxine may
		faster rate than usual, so that t
		quickly enough to maintain bo
	9. Psychological symptoms 10. Weight loss	Rapid changes in thyroxine lev
		overactivity and sleeping prob
		to more extreme changes of n
		Raised thyroxine levels increas
		weight loss.
Hyperthyroidism		The thyroid gland may enlarge
		whi ำ ำ ำเ ibutes to the hyper
	1. Goitre	re- as why this might happe
	i. doitie	(essential for thyroxine produc
		autoimmune disorder and the
710 Talendary	7 <u>-2</u>	hyperthyroidism in the UK.
	ĺ	Thyroid eye disease is caused
	13. Eyesight problems	Graves' disease and the most of
		the UK. The immune system at
		tissue behind the eye, causing
		bulging, gritty and watery eye

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Activity 1 - Endocrine system disorder

- Colour-code the disorder cards below using three different colours.
- Then use the same three colours to match each disorder to the effects below
- Once done, match the numbers given for each effect to the reasons given be linked to more than one reason). One has been don for you.

Alternatively you could cut out the cases and march them up.



Diabetes (Types 1 and 2)

Effects:

1. Goitre	2. Disturbance to
1. Goitie	menstrual cycle

3. Tirednes

- 5. Problems in pregnancy
- 6. Myxoedema
- Low mood depression

- 9. Psychological symptoms
- 10. Weight loss

11. Goitre

13. Eyesight problems

14. Poor circulation, especially i hands and feet, leading to tissu damage and possible amputation

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Reasons:

In types 1 and 2 diabetes, raised levels of sugar in the bloodstream cause damage to the blocd walls, leading the being laid

This will cause the blood vessels to be narrowed and hardened, meaning less oxygenated blood can reach the tissues. produce more thyroxine, which contributes to the hyperthyroidism. There are a number of reasons why this might happen, including lack of iodine in the diet (essential for thyroxine production) and Graves' disease, which is an autoimmune disorder and the most common cause of hyperthyroidism in the UK.

Rapid chase can cause overactivity More extress more extress the thyr

14

In types 1 and 2 diabetes is blood sugar length raised blood pressure, can the tiny blood vessels in this part of the body.

Thurex'se, a role in heart rate, keeping the new scale strong and maintaining healthy sod cholesterol levels. Hypothyroidism reduces thyroxine levels, slowing the heart rate and eventually weakening the cardiac muscle, possibly leading to heart failure.

In types 1 and 2 diabetes, high levels of sugar in the bloodstream can damage the walls of the blood vessels, leading to fatty deposits being laid down.

The most is sign is lact the over-side the over-side the contract the



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Zig Zag Education For a woman with type 1 or 2 diabetes, the metabolic changes during pregnancy cause the body to need more insulin, which may lead to unstable blood sugars. There may be an increase isk miscarriage and also contained the having a larger baby, we have tself may cause problems during labour as the baby may be too large to pass through the pelvis, making a

The body will also need more thyroxine to meet rising metabolic levels, which a healthy thyroid gland would automatically meet.

caesarean section necessary.

Raised le din the bloodstream, due to to din the blood stream, due to to din the blood stream, due to the blood stream and place to the blood deposits and plaque being laid down.

This will cause the blood vessels to be narrowed and hardened, meaning less oxygenated blood can reach the tissues.

In hypothyroidism, reduced thyroxine may cause stiffening of the arterial wall and a consequent rise in blood pressure.

Thyroid eye disease is autoimmune responderate of the autoimmune responderate of the arange of symptom bulging, gritty and autoimmune responderate of the arange of symptom bulging, gritty and autoimmune responderate of the arange of symptom bulging, gritty and autoimmune responderate of the arange of symptom bulging, gritty and autoimmune responderate of the arange of the arang

Thyroxine helps the maintain its metabolic contributes to temperature maintenance, energy levels and brain activity.

Thyroid hormone is essential for metabolism. Too little can lower the metabolic rate, causing the individual to experience fatigue, a drop in body temperature, dry skin and memory problems.

Raised levels of thy cause bone cells to be a faster rate than usue body is unable to requickly enough to me density.







Activity 2 - Endocrine system disorders (type diabetes)

Teacher notes

Plenary Activity: Card study (email) This activity provides an opporunt valuetudents to test their Aim of the case study context 3 & hey re working together, student activity knowledge aplice we to learn in an unpressured environ G たいごう ntシnto groups of between two and four. Hand out the case study page, along with the email fill-in pag are pretending to be Maria's GP and are explaining to her: why Maria might have developed type 2 diabetes 2. the effects it could have on her health and well-being Teacher's instructions Students should be given two minutes to read the case study for writing their email. Once time's up, go through the possible answers with the gro swap responses and mark each other's while you all discuss it. possible answers and ask students to check their own work.

Answers

Why Maria might have developed type 2 diabetes:

- Going by the photo, Maria is obviously overwhight chibese. This could have high in fats and sugars, as well as not the number of exercise. Exercise opportunities a she works full-time and the young family, leaving her very little.
- Maria's body will have a dinsulin resistance, meaning that her body recarry' given entering the body recarry' given by the body recar
- If eithe parents had Diabetes Type 2, she has a 15% chance of deve

The effects it could have on her health and well-being:

Maria will be at risk of hyperglycaemia and hypoglycaemia if she doesn't control

She would also be at risk of:

- increased chances of a stroke
- problems in any future pregnancy for both her and the new baby
- increased chances of heart disease
- eyesight problems
- kidney problems
- nerve damage
- poor wound healing, which could lead to ulcers
- poor circulation, especially in her hands and feet, misrocald lead to tissue de



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Activity 2 - Endocrine system disorder

Case study (email)

To:

Maria is a 35-year-old teaching assistant who works with children with additional needs. She has recently been diagnosed y, $p \in 2$ diabetes and is understandably upset, anxious and wo ried count her health.

She is married to Marcos 2000 is a carpenter. They have three children: Lucia aga (1), sastian, aged 7 and Tomas, aged 4.

Maria@unrealemail.com

Maria is anxious and worried about her diagnosis of type 2 diabetes. Imagine to you are writing an email to her about her disorder, to recap what was said to he appointment.

Explain why Maria might have developed type 2 diabetes and what effects it coule health and well-being. The first two sentences of the email have been written for

From:	
Subject:	
Dear Ma After ou have ou your hea	ria, tir. v. wednesday, I thought I would email you with a summa what we said about why you may have developed Diabetes Typer and wellbeing.

Continue your email on a piece of A4 if you need more space.

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Activity 3 - Nervous system disorders (Parkin disease and dementia)

Teacher notes

	Starter Activity: Multi-choice quiz
Aim of the activity	To give students an opportunit to a sheir knowledge of Park a limited range of option
Teacher's	Hand out the 4 m inspect to each individual or get students you have read out the quiz to the class. To extend students' knowledge, get them to provide a justificative response, under their answers.
instructions	Aim to give students one minute to think about and answer eat take approximately 10 minutes to answer the questions.
	Responses could similarly be read out or handed out for peer opportunities for discussion and further questions.

Answers

- 1. C. The body's ability to move muscles in coordination, such as walking
 - **Motor function** refers to the use of muscles for movement.
 - Gross motor: using large muscle groups for activities such as walking
 - Fine motor: using small muscle groups such sole in the hands for

2. A. Dopamine

- **Dopamine** levels するのい Andividuals with Parkinson's disease, a and aren't とえず
- **1** associated especially with feelings of well-being and hap tons, including sleep, digestion and sexual function.
- Acetylcholine levels are reduced in individuals with Alzheimer's dise

3. A. The collection of cells in the brain that produce dopamine

- The substantia nigra in the midbrain is responsible for producing d
- The material that forms the supporting structure of the brain is made approximately 60% fat and also contains neurons and blood vessels,
- The brainstem is primarily responsible for controlling vital functions

4. C. A slow, shuffling walk

- The ability to use small, fine tools such as a watchmaker's screwdrive motor skills.
- Bradykinesia refers to the typical slow, shuffling alk associated with individual may also appear to constaging the new thumb and fingerty

Jems swallowing اده و B. Loss of balance, memo

- Kir Sease develops as a result of degenerating neurons that the control movement. This explains why movement becomes difficulties and balance.
- Swollen joints, fatigue and difficulty with movement are associated w

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A. **Dementia with Lewy bodies**

- Lewy bodies are collections of a specific protein in the brain that dis associated with Parkinson's disease, when an individual develops bot same time.
- **Vascular dementia** occurs as a result of disruption to the blood supp following a stroke.
- **Frontotemporal dementia** is an uncommonish n of dementia that lobes of the brain, causing changes care, ro come in behaviour and la

B. 850,000 7.

According to the same approximately 850,000 people with Alzhe 1 in 6 is over 80.

C. rcholine 8.

- **Dopamine** levels are reduced in individuals with Parkinson's disease
- **Serotonin** is associated especially with feelings of well-being and ha functions, including sleep, digestion and sexual function.
- **Acetylcholine** levels are reduced in individuals with Alzheimer's dise

C. The build-up of proteins into layers that disrupt the working of neu 9.

- The plagues in Alzheimer's disease are caused by the build-up of cert connections between neurons.
- The build-up of hard material inside a blood vessel is also known as atherosclerosis in the circulatory system.

Mild memory loss 10. A.

- All the signs and symptoms listed can occasion. At heimer's disease.
- However, mild memory loss is a can now wiptom in the early stage
- The other two are likely to constitute middle and late stages of the





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Activity 3 - Nervous system disorders

Multiple-choice quiz

Answer the following multiple-choice questions below on Parkinson's and Alzhei If you have time, include a reason for your response.

1. What is 'motor' function?

A.	The speed at which sor 1 oc pumpletes a task
В.	The speed at a repody responds to a painful stimulus
C.	b ந்து மிற்று to move muscles in coordination, such as walkin
3	Political Control of the Control of

Reason

2. Which neurotransmitter is especially involved in Parkinson's disease?

Α.	Dopamine	
В.	Serotonin	
C.	Acetylcholine	

Reason:

3. What is the 'substantia nigra'?

Α.	The collection of ce'
В.	The mate and a forms the largest part of the brain tissue
C.	\mathcal{L}_{ω} paron the brain involved in controlling heart and breathing ra

Reason:

4. What is 'bradykinesia'?

A.	A slow dance
В.	The ability to hold and use very small tools, such as a watchmaker
C.	A slow, shuffling walk

Reason:

5. Which three effects are arrang in sankely to be experienced by an individual

Α.	property wheezing, coughing
В.	of balance, memory loss, problems swallowing
C.	Swollen joints, fatigue and difficulty with movement

Reason:

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A.	Dementia with Lewy bodies
В.	Vascular dementia
c.	Frontotemporal dementia
Reason:	
low ma	nny cases cຳ ເລື້ອ ກ່ອນ disease are there currently estimated in th
Α.	Tos minión
В.	850,000
C.	500,000
Which i	neurotransmitter is associated with Alzheimer's disease? Dopamine
В.	Serotonin
C.	Acetylcholine
	a 'alaçıs' in , shemer's disease?
Α.	with Alzheimer's disease and their carers
В.	The build-up of hard material inside blood vessels
C.	The build-up of proteins into layers that disrupt the working of ne
Reason	
What is	a very common early symptom of Alzheimer's disease?
What is	a very common early symptom of Alzheimer's disease? Mild memory loss
	a very common early symptom of Alzheimer's disease? Mild memory loss Going for a walk and getting lost

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Activity 4 - Musculoskeletal system disorder (rheumatoid arthritis)

Teacher notes

	Starter Activity: 'How much do you know?'		
Aim of the	To give students an opportunit to shock their own knowledge		
activity	gaps.		
	Get the student resource		
	The skea to study the photograph and then write down a		
a. Jur the causes of rheumatoid arthritis and its effect			
Teacher's	When ready, start the timer. Students have three minutes to co		
instructions	when ready, start the timer. Stadents have three filliates to ce		
Instructions	When time's up, students need to:		
	either look at other students' responses and add in any addition		
	OR this could be done as a whole-class activity, with responses		
	that students can write them down.		

Answers

Causes and triggers of rheumatoid Effects of rheumatoid arthritis or arthritis Rheumatoid arthritis is an Painful, swollen and inflamed joints autoimmune disorder, meaning the Affected joints are stiff, especially fi body's immune system begins after a period of inactivity. attacking itself. The reason this should Infl: no 't' ar makes the affected jo happen is unknown, although an 🛴 uch, which further reduces mover infection or a virus has been The smaller joints are usually affect suggested. feet. Often, it will affect the same jo not always. However, e some factors that The synovial membrane around the evidence suggests make the disorder thickened. It eats into the cartilage more likely: the joint. smoking. Weight loss being female – it's 2–3 times Flu-like symptoms more common in women. Poor appetite if somebody else in family has the **Tiredness** disorder. Loss of energy being overweight. Anaemia if an individual eats a lot of red Rarely – lung problems, such as per

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foods with vitamin C

if an individual doesn't eat many

breath caused by the lung linings b

Rarely – inflammation of the lining

Rarely – inf. ation of the eyes, l

Activity 4 - Musculoskeletal system diso

'How much do you know?'

Study the photograph (right), which shows deformities of the hand in somebody with rheumatoid arthritis. This particular deformity is known as 'Swan Neck' because of the shope the fingers, which are curved, as in a swan's neck.

Your teacher will give you to so in which to write down as much information with an arthink of about the causes of rheumatoic is and its effects on the body.



Write your responses in the table below.

Causes and triggers of rheumatoid arthritis	Effects of rheur

Now share your information in the rest of your class. Add in any addition in the same rest of your class. Add in any addition in the same rest of your class. Add in any addition in the same rest of your class. Add in any addition in the same rest of your class. Add in any addition in the same rest of your class.

Go on to a second page if needed.

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Activity 5 - Respiratory system disorders (choobstructive pulmonary disease (COPD) and a

Teacher notes

	Plenary Activity: Case widy and review
Aim of the activity	To give students an opportunit to lights their knowledge of study, for whom they are a prepare an information leaflet.
Teacher instructions	Put student to a caps of 2–4. Hand out one case study per of E it is a nat they are pretending to be Charlie's practice nurse a resource for him that he can take away and read at home. This minutes to complete.
	A short extension activity on triggers, signs and symptoms of as When finished, go through the activity, discussing what points This activity could be completed in class (a further five minutes)

Answers

What is chronic obstructive pulmonary disease (COPD)?

- An umbrella term for a group of lung conditions, causing inflammation and residual
- This leads to a lot of mucus being produced, which causes constant coughing
- Over time, the constant inflammation leads to the alveoli losing their tone and
 of the lung doesn't have as much surface area as it once did, which in turn recan be absorbed into the bloodstream.
- The lungs lose their elasticity and tone, which me not be air passages tend to air through the lungs and further rections be amount of oxygen that can be as well as making it harder form to be to get rid of excess carbon dioxide.

- Charlie 19 veroped COPD mainly because he's smoked cigarettes most of
- He's also paker and breathing in the very fine particles in the air from the flobeen a contributory factor.

You feel as if you're always out of breath because...

- The tissues inside the lungs, which are the bronchioles and the alveoli, have locallapsed. This means air cannot circulate freely through the lungs and there's for absorption.
- The alveoli have collapsed, so there's less surface area inside the lungs for gameaning that there's less space for oxygen to be absorbed into the bloodstream into the air.

Answers for extension activity on asthma

Possible triggers	 pollution infections, such as calcased functions smoke data and another transfer functions 	allergexergcold	
Signs ana	coughing dizziness	wheetireddiffic	ness
symptoms can include	 feeling as if there's a tight band around the c cyanosis (blue tinge to extremities, such as lip children may complain of tummy ache or the loss of consciousness 	hest os and finge	er na

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Activity 5 - Respiratory system disord

Case study and review

Charlie is 65 years old. He's been a baker all his working life and owns his own business. He has always worked in the factory, sugar, and bis staff while they cakes, pastries and bread. Since he was 1 1 he has always smoked cigarettes.

After many months of real post infections, chronic cough and constant breathlesses, I hospital consultant have diagnosed chronic obstruct pulmon (COPD). As you can see in the photograph, he has to go everywher the an oxygen cylinder and always wears an oxygen tube that sits below his nostrils. This means that he has enough oxygen to enable him to be independent.

You teacher will put you into groups. Read the case study (above).

Imagine you are Charlie's practice nurse at his local GP surgery. He has come for understand what COPD is, why he has developed it or why he's constantly out of worried about his business and his family, as he guesses that his life expectancy is

You need to prepare some straightforward information for the about COPD that well as showing it to his wife and family.

Use the template provided and cranp a similar on to another page if needed.

What is chubstructive pulmonary disease (COPD)?

Why have you developed COPD?

You feel as if you're always out of breath because...



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Activity 5 - Respiratory system disord

Extension activity on asthma

Complete the table below about the triggers, signs and symptoms of asthma. One for each heading has been started for you.

	/ si) na
Possible triggers	• pollution
Signs and symptoms can include	• breathlessness

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Activity 6 - Circulatory system disorders

Teacher notes

	Starter Activity: Define and question
Aim of the activity	To remind students of some of the vocability associated with system and to test their knowledge of sking them to explain the question.
Teache 729 instructio	Get students to we wise individually or in pairs to define the circular and then answer the question. Challenge students to one minute per definition (13 minutes) at for answering the question. Maximum 15 minutes per activity. When students are ready, go through the definitions and possible to the control of the contr

Answers

Key terms	Definition
Coronary arteries	arteries that supply fresh, oxygenated blood to the he
Atherosclerosis	the process when fatty substances are laid down in a
Atheroma	the deposits of fatty substance in the artery walls. The 'plaques'.
Angina	episodes of ischaemia in the heart, meaning the pain flow to the heart. It is often brought on by increased
Ischaemia	a lack of blood supply to tissippart of the body. If the heart.
Myocardial infarction	a medical na aart attack'.
Prognosis	the livery of the for a disorder
Stem cells	್ಯ mat can differentiate into different types of cells
White bloc	blood cells that fight infection
Bone marr	the spongy tissue found inside the bones
Acute	Acute disorders come on suddenly and last for a sho
Acute	leukaemia means a leukaemia that progresses quickly
Chronic	Chronic disorders progress more slowly and last for a
Chronic	leukaemia means it progresses more slowly.
Leukaemia	Leukaemia means 'white blood' and is a form of canc
Leakaeiiila	of too many abnormal white blood cells.

Any four from the following:

- smoking
- high blood pressure
- lack of exercise
- high levels of cholesterol in the bloodstream diabetes
- being obese or overweight
- a family history of cores here disease



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Activity 6 - Circulatory system disord

Define and question

Provide a definition for each term (given below). One has been done for you.

Then answer the question.

Key terms		Definition		
Coronary arteries				
Atheroscie Randon	the process when fatty substances	are laid dov		
Atheroma				
Angina				
Ischaemia				
Myocardial infarction				
Prognosis				
Stem cells	. <u>et</u>			
White blood is				
Bone marrow				
Acute				
Chronic				
Leukaemia				

Now answer the following:

Identify four factors that may I	ead to care by a with disease (CHD).
1.	
2. 79 709 Favoration	
3.	
4.	

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Activity 7 - Cancer (bowel and prostate)

Teacher's notes

	Starter Activity: Black and green mind map
Aim of the	To enable students to feel secure in their 'powledge of cancer
activity	and prostate cancer.
Teacher's instructions	Hand a green pens, one for each group. Hand be green pens, one for each group. Go through the mind map with the whole class. Then tell stude mind map face down. Using the black pen, students must repromind map in the time that you choose to give them, such as five The whole activity should take a maximum of 15 minutes. The first words of each text box have been left, to give a clue at the time suitable for a starter. Students turn the information mind map over and compare who original. They should add further information in their own versal If needed, repeat the exercise, using a second blank mind map green additions second time around. An A3 version of the mind map has been provided in Appendix
Additional resou You will need: black pens	rces:
• green per 79	

Additional resources:

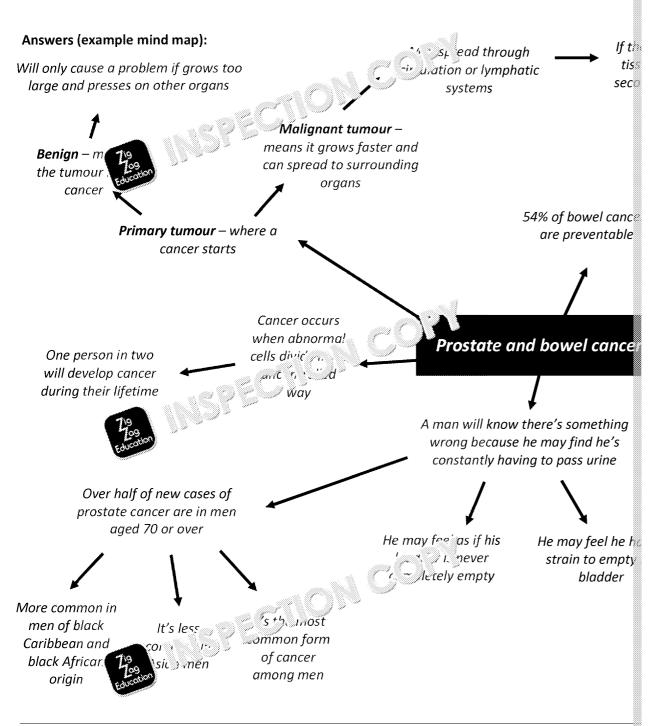
- black pens



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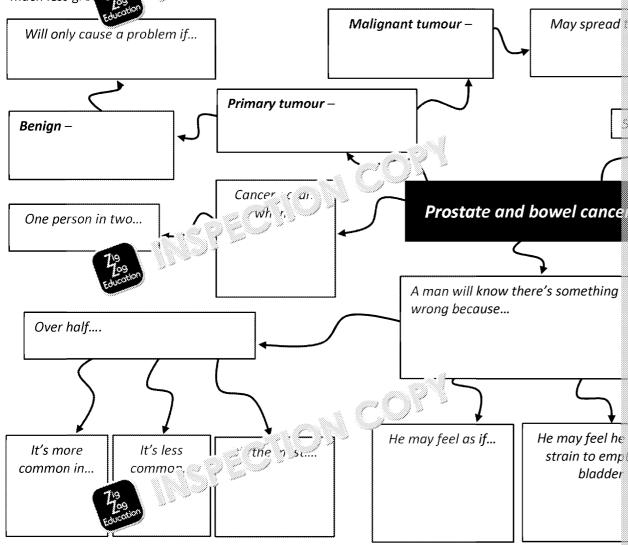
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Zig Zag Education

Activity 7 - Cancer

Black and green mind map

Read through the information on the manage indeed out by your teacher). Then turn it over and, using the work of time allows and the activity with a second blank mind map. This time, you should much less green to the activity with a second blank mind map. This time, you should much less green to the activity with a second blank mind map.





Activity 8 - Impact of disorders on physical, social and emotional health

Teacher notes

	Plenary Activity: 'Have that' case study
Aim of the activity	To give students an opportunit to which pairs or small group knowledge about the many of meumatoid arthritis on different and well-beigger.
Teacher's instructions	Hand out Dorothy's case study to each pair or group, along witto write down a minimum of one possible effect of the rheuman health and well-being (physical, intellectual, emotional and social Give students 10 minutes to discuss and write down one effect fibeing. Ask each pair or group to explain their ideas about the impact group. Alternatively, you could put pairs or groups together so fours or larger groups. If you wish, use this time to invite further discussion about the on Dorothy and how she may be supported.

Answers

Below are tables filled in with possible and the wordthy would react depends support she has from friends. The wordthy on a negative impact, while the class to discuss how Dorothy of the ported and the positive impact that would have

For convenition answers have been divided into physical effects on Dorothy's intellectual, experience and social effects.

Physical health and ability to complete activities

Physical health and ability to complete activities	How the rheumatoid arthritis is like	
Personal hygiene, such as bathing, hair washing and drying	Everyday activities are all likely to be difficult with stiff, example: • opening the top of a bottle of shampoo	
	 manipulating a hair brush and hair dryer at the same getting in and out of a bath or shower – she's more getting on and off the toile she may have stiffn ss' s' es been immobile for so getting up and morning, and this will be worse due 	
Putting on make-up	• T'a rin a sevements needed to apply make-up are	
Getting dressed	Generalised stiffness and pain are likely to be underwear, socks, etc. difficult and are likely to distimay be at risk of falls.	
Preparing food for meals and cooking	 Using basic kitchen equipment, such as knives, can likely to be difficult. Difficult to lift saucepans and kettle, etc. 	
	Painful, stiff knees may make it hard for her to bend	

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Going shopping and voluntary work	 Pushing a shopping trolley and the trolley movements, using large muscle groups. Patthese harder and take much longer. Handling coins, picking up items for the shadened.
Transport	 Driving: stiff, swollen and painful joints may handbrake, changing gear and using the poorothy. Public transport: clipping on and off buses down stairs at the stations or over ground the poorothy.
Housework F(120)	 Cperating equipment such as a vacuum clesskills, using stiff, swollen and painful joints. It's worth remembering that rheumatoid are especially during a flare-up, as well as stiff,
Education	also experience flu-like symptoms, poor ap of energy.

Intellectual, emotional and social health

Intellectual, emotional and social health	How the rheumatoid arth
Self-esteem (emotional)	 Reduced ability to carry out her usual according to experience a loss of self-este A low self-esteem means Dorothy is at redepression.
Self-image (emotional)	Judging by the photo, Dorothy likes to do of her appearance she's unable to do may well series a poorer self-image of herself she self-image means Dorothy is at ris depression.
Self office au	 She may have a fear of falling and injuri painful, stiff and swollen, and so won't c Low self-confidence means Dorothy is a and depression.
Anxiety (emotional)	 If Dorothy's afraid of injuring herself, fee holding people up, and finds she's unab work, she's at risk of developing anxiety three points above.
Depression (emotional)	Reduced self-esteem, self-confidence as sleep due to pain, fatigue, increasing se arthritis may cause Dorothy to develop
Relationships (social)	 Family: distant family and being widow Working: she may find it increasingly hashe's used to. This by make her feel unloneliness and the family may want to form any make it much harder to get out and
700	 potential loneliness and isolation. Social: pain, reduced mobility and fatig Dorothy can spend with friends and oth
Me. Joss (intellectual)	 The impact of anxiety has been linked wincrease in cortisol released. Depression also can impact on memory

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Activity 8 - Impact on physical, mental, social and emotion

'Have a chat' case study

Dorothy is 73 years old. She is a retired primary school teacher and now voluntee her local hospital, where she helps to take a trolley with respectively. Fines, drinks and swaround the wards. Dorothy enjoys the work, as shows a near and would otherw have little social contact. Her husband disconnect five years ago and her children Australia.

She has had a make the flare-ups are frequently. Her hands and kneepecially back affected.

Read the case study about Dorothy. Complete the table below with one idea of affecting Dorothy's *physical*, *intellectual*, *emotional* and *social well-being*.

For this task, think about all the different activities that Dorothy might do during arthritis could affect them. For example, activities such as getting dressed, preparactivities.

How could her self-esteem, self-confidence and self-imas affected?

Health and well-being	Activity	How the rheumatoid arth
Physica. 1		
Intellectual		
Emotional		
Social		

When your u. You will be asked to explain your ideas to the rest of your go on to any neet of paper.

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Activity 9 - Inherited traits

Teacher notes

	Starter Activity: Match-up
Aim of the activity	To give students an opportunity to the chief knowledge by
Teacher's instruct 19	Put students into group —4, and give each group the works Stude & A Chimatch up the questions with the correct answer. The answers page. Alternatively, you could cut out an answer cards and complete the match-up this way.
	Students should be given a maximum of 15 minutes for this ac

Answers

1. What is meant by an inherited trait?

An inherited trait is one that is passed on genetically.

Examples of inherited traits include height, eye colour, hair and skin colour.

Examples of inherited disorders include Huntington's disease, cystic fibrosis as

2. What is meant by the term 'sickle cell disease'?

Sickle cell disease is a group of inherited diseases, the most serious of which is red blood cells, changing their shape and giving them a characteristic sickle shape anormal red blood cells and can also become stuck in the blood vessels.

3. What is meant by a 'sickle cell crisis'?

People with the disorder are at rick (fig.) accell crises, which are severely pain blood vessels in different as on the body become blocked and these can last individuals are Fig. (a) accome sickle cell crisis per year. They are more likely also to the pain also the pain also

4. Who is most likely to have sickle cell disease?

Sickle cell disease is found mainly in people of African and Caribbean origin.

Asia, the Mediterranean and the Middle East and occasionally in people of W

5. What are the two forms that sickle cell disease can take?

Sickle cell inheritance can take two forms. People can inherit sickle cell disease the disorder in childhood and have it throughout their life. Others will inherit while they may not develop the disease, they are at risk of passing it on to the

6. If a couple both carry the sickle cell trait, what are the chances of passin

25% chance (1 in 4) that each child they have will not inherit any faulty genes have sickle cell disease and won't pass it on to their contribution.

50% chance (1 in 2) that each child they have and one faulty gene from child will be a carrier of sickle cell trail.

25% chance (1 in 4) that each chief have will inherit faulty genes from bot will be born with sight all disease.

7. What it is e of the inheritance traits associated with type 1 diabetes? If a man has type 1 diabetes, there's an 8% chance of his child also developing If one identical twin has type 1 diabetes, there's a 40% chance of the other twill to can also be linked with other autoimmune disorders, such as rheumatoid a

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8. What are some of the inheritance traits associated with type 2 diabetes? If either parent has type 2 diabetes, their child (as an adult) has a 15% chance If one identical twin has type 2 diabetes, there's a 90% chance the other twin People of South Asian or Afro-Caribbean origin are more at risk.

- 9. What are some of the inheritance traits associated with hypothyroidism?

 Hashimoto's disease, the most common cause of hypologism, runs in familia people with Type 1 diabetes.
- 10. What are some of the inherical is associated with Parkinson's disease. The disorder is know and amilies, although the reason why people are appearing to a disorder which make Parkinson's disease more likely but
- 11. What a ome of the inheritance traits associated with Alzheimer's disease People are more likely to develop Alzheimer's if they have a parent or sibling more than one close relative with Alzheimer's disease, they are at a greater risease.
- **12.** What are the inheritance traits associated with rheumatoid arthritis?

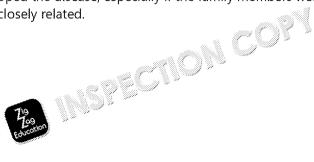
 There appears to be a genetic link in rheumatoid arthritis, which can cause in although the links are not clear at the present time.
- **13.** What are the inheritance traits associated with osteoporosis?

 Osteoporosis does run in families, probably because bone growth and developed to the contract of the cont
- **14.** What are the inheritance traits associated with asthma?

 If one or both parents have asthma, their child is more likely to develop the develop.
- An individual is more likely to develope if their father or brother were diagently with coronary heart of they were below 55 years of the develope CHD if their mother or sister were diagently being 5 years.
- **16.** What is the of the inheritance traits associated with leukaemia? Children with Down's syndrome are genetically more likely to develop leukaemia.
- 17. What are some of the inheritance traits associated with bowel cancer?

 An individual is more likely to develop bowel cancer if there have been several developed the disease, especially if the family members were young when it closely related.
- 18. What are some of the inheritance traits associated with prostate cancer?

 An individual is more likely to develop prostate cancer if there have been sever developed the disease, especially if the family members were young when it were closely related.



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Activity 9 - Inherited traits

Match up

The following questions have been mixed up from their answers (on the next page writing the number of the question next to each answer.

- 1. What is meant by an inherited trait?
- 2. What is meant by the term 'sick' all 's Ease'?
- 3. What is meant by a in the investis'?
- 4. Who i 19 lik p to have sickle cell disease?
- 5. What a two forms that sickle cell disease can take?
- 6. If a couple both carry the sickle cell trait, what are the chances of passing th
- 7. What are some of the inheritance traits associated with type 1 diabetes?
- 8. What are some of the inheritance traits associated with type 2 diabetes?
- 9. What are some of the inheritance traits associated with hypothyroidism?
- 10. What are some of the inheritance traits associated with Parkinson's disease
- 11. What are some of the inheritance traits associated with Alzheimer's disease
- 12. What are the inheritance traits associated with rheumatoid arthritis?
- 13. What are the inheritance traits associated with osteoporosis?
- 14. What are the inheritance traits associated with (3) a:
- 15. What are some of the inheritance transaction sociated with coronary heart dise
- 16. What is one of the inhalical associated with leukaemia?
- 17. What 🍊 🤭 ്രാസ്ക്രലtance traits associated with bowel cancer?
- 18. What describe of the inheritance traits associated with prostate cancer?

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Q No. Answer

An individual is more likely to develop CHD if their father or brother were diagnawhen they were below 55 years old.

An individual is more likely to develop CHD if their mother or sister were diagnoswhen they below 65 years old.

People are more likely to develop Alzheimer's if they have a parent or sibling with have more than one close relative with Alzheimer's disease, they are at a greate

Children with Down's syndrome are genetically more likely to develop leukaemia

Osteoporosis does run in families, probably because bor. ... wth and developme

The disorder is known to run in families, although the ason why people are sust There do appear to be gene mutation the ake Parkinson's disease more like. An individual is more likely to get a likely to get and a sustain the family members were young who have developed to get a sustain the family members were young will and/or the to get related.

Hashimoto ase, the most common cause of hypothyroidism, runs in families to occur in people with type 1 diabetes.

If one or both parents have asthma, their child is more likely to develop the diso

There appears to be a genetic link in rheumatoid arthritis, which can cause indivisions, although the links are not clear at the present time.

If either parent has type 2 diabetes, their child (as an adult) has a 15% chance of disorder.

If one identical twin has type 2 diabetes, there's a 90% chance the other twin will People of South Asian or Afro-Caribbean origin are more at risk.

An individual is more likely to develop prostate cancer if there have been several who have developed the disease, especially if the family members were young wand/or the men were closely related.

People with the disorder are at risk of sickle cell crises, which are severely painful when blood vessels in different parts of the body begin allowed and these can On average, individuals are likely to have a point of the crisis per year. They are serious infection and also to be an also shortness of breath, tiredness, dize if a man has type 1 diabeted and 8% chance of his child also developing to the continuous disorders, such as rheumatoid arthur that can also be a with other autoimmune disorders, such as rheumatoid arthur 25% chance and the child they have will not inherit any faulty genes. The not have sickle cell disease and won't pass it on to their own children.

50% chance (1 in 2) that each child they have will inherit one faulty gene from on that the child will be a carrier of sickle cell trait.

25% chance (1 in 4) that each child they have will inherit faulty genes from both the child will be born with sickle cell disease.

Sickle cell disease is found mainly in people of African and Caribbean origin. It's from Asia, the Mediterranean and the Middle East and occasionally in people of Sickle cell disease is a group of inherited diseases, the most serious of which is so affects the red blood cells, changing their shape and giving them a characteristic don't live as long as normal red blood cells and can also become stuck in the blood Sickle cell inheritance can take two forms. People can inheritaickle cell disease, develop the disorder in childhood and have it through the life. Others will intrait, meaning that while they may not device it is also asse, they are at risk of pown children.

An inherited trait is one the first on genetically.

Examples of item colour. Conclude height, eye colour, hair and skin colour.

Examples vitea disorders include Huntington's disease, cystic fibrosis and second seco



Activity 10 - Lifestyle choices

Teacher notes

	Starter Activity: 'Speed talking'
Aim of the activity	To give students an opportunity to check and share their know making them feel more comfortables at aking risks with the
Teacher's instructions	The teacher should photograph of the students into pairs. Put the students into pairs. Put the student A should pick up the question card and Student card.
instructions	At the word 'Go', Student A has three minutes to answer their information as possible. At the word 'Stop' Student B will be abwhat answers they have correct and which ones, if any, have be they should rotate to the next card and swap roles. The whole activity should take no longer than 15 minutes. Not answer every card.

Additional resources: a stopwatch

Questions and answers

Questions	Answers
	Ri moking are
	ar ers of: head, neck, lung, leukaemia, stomach, kidr
19	cervix
What ar risks	Chuania diaandana
from smoking	Chronic disorders:
cigarettes?	stroke; blindness; gum infection; aortic rupture; heart
cigarettes:	of the arteries; chronic lung disease and asthma; redu
	impotence; increased miscarriage; premature birth; st
	death; chronic obstructive pulmonary disease (COPD)
	osteoporosis leading to injuries such as hip fracture

What are the risks of using or overusing drugs, including prescription drugs?

Using or overusing drugs, including prescription clung disease and cancer; respiratory disorders such as infertility; high blood pressure; ruptured blood vessel coronary heart disease (especially if tobacco is mixed use); severe dehydration and selection (especially paranoia and schizop) ref. 3

What is more by that drugs are misused?

mis was means taking illegal substances, such as gardrugs in a way not recommended by the GP or many

Drugs that are commonly misused include:

tobacco; alcohol; illegal drugs; prescribed medicines stablets, cold remedies; khat (a kind of leaf that's chewaerosols, gases and solvents

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What are the effects of using Ecstasy?

Effects of using Ecstasy include:

clouded thinking; hyperthermia (dangerously high body tempers behaviour, jaw-clenching; teeth-grinding; accelerated heart rate blood pressure; sweating and dehydration; nausea; vomiting; halloss of inhibitions; increased urge for sex

Smoking:

- NHS Stop Smoking Services
- Nicorette
- British Lung Foundation
- Macmillan
- Smokefree.gov
- professions a ് പോദ് P surgery or health centre

Give at least four examples of websites or other sources of support on giving smoking and drug

Give at least four

techniques to help

somebody give up

smoking.

Give at least four

techniques to help

somebody give up

drugs.

Frank

- NHS
- Supportline
- Oasis health and well-being
- Recovery.org.uk
- Mind
- professionals at local GP surgery or health centre

Any four from:

- education and information
- hypnotherapy
- acupuncture
- smokefree community on Facebook
- telephone helplines
- online chat facility
- apps
- emailed projum いっ
- text to accommo

Light dist

face support with an advisor, through local Stop Smicrotine replacement therapy (NRT)

e-cigarettes

Any four from:

- GF
- Frank online
- local drug treatment services, that may be identified through
- talking therapies, such as cognitive behavioural therapies (
- medicines, such as methadone
- detoxification
- self-help groups, such as Narcotics Anonymous
- residential rehabilitation
- appointed drugs/key worker to working an individual

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Activity 11 - Diet

Teacher notes

	Starter Activity: Dietary bingo
Aim of the activity	To give students a fun opportunity to their knowledge.
Teacher's instructions	Photocopy the bingo and a real one for each student, pair or provided. Deposition of the number of students, divide them a real out a question (there are 36) and wait for a correct responsive the answer on their card, they should cross it out, regardle personally gave a correct spoken response. You can read the questions in any order you choose, which is well continue in this way. The first student with five correct answers the winner. They should shout out 'Bingo' if they have five in a Rows may be diagonal, horizontal or vertical. It's up to you whether or not you hand out a prize!

Questions and answers

Questions	
What word is used to describe a long period of inactivity or sitting down?	2r. ary
What leads to an individual becoming overweight or obese?	Taking in more calories t
How is the excess : > \ to red in the body?	As adipose tissue beneat organs, in the bone marr
How man les does an average man need every day?	2,500 calories per day
How many calories does an average woman need every day?	2,000 calories per day
What BMI reading is a healthy weight?	18.5–24.9
What BMI reading is an obese weight?	30–39.9
What two factors can influence BMI and give an inaccurate reading?	Ethnicity and if the indivi
	Stroke
	Type 2 diabetes
A was this automos of about	Bowel cancer
A possible outcome of obesity	High blood pressure
	ि ु। ry heart disease
	<u>'</u> /taritis
=4.000 ×	Protein
A macronutrient	Fats
	Carbohydrates
A group of Tempnutrients	Vitamins
A group of Archan nautenes	Minerals
Sources of protein	Meat, fish, eggs and bea
Sources of energy, vitamins, minerals and fibre	Fruit and vegetables
Sources of energy	Bread, rice, potatoes and
Sources of minerals, fats and vitamins	Dairy

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Questions	Answers
Sources of energy	Fatty and sugary foods
What waist measurement in a man predisposes him to health problems from obesity?	37 inches (94 cm) or more
What waist measurement in a woman predisposes her to health problems from obesity?	31.5 inches (80 cm) or more
What is a macronutrient?	A nutrient needed in relatively large protein, fats and carbohydrates
What is a micronutrient?	A nutrient needed in very small amount and minerals
Dark leafy greens, egg yolks and red meat are all sources of what mineral?	Iron
What function does iron have in the body?	essential for haemoglobin in the that oxygen can be carried through
What function does virgini in the body?	It's essential for health of the eyes, t system and the immune system
What does a deficie calcium cause?	Osteoporosis, muscle cramps and a rhythm
What does a deficiency of vitamin D cause?	Osteoporosis and rickets
Milk, yoghurt, cheese and dark leafy greens are all sources of what mineral?	Calcium
What is rickets?	When the bones become soft due to this happens in childhood, the bone under the child's weight, causing a l appearance.
What symptom might an underweight teenage girl or woman notice?	Periods might stop







Dietary bingo - Card 1

- 1. Your teacher will read out a question.
- 2. One of you will answer and if you have the correct answer, mark it off on you card. It doesn't matter if you personally didn't come up to the the correct answer.
- 3. As soon as you have five in a row, shout out 'Bing and we can be vertical, how diagonal. The first person with a row of an amused is the winner.

Periods might stop	Iron	Fatty and sugary foods	Coronar dise
Meat, fish, eggs and beans	A nutrient needed in very small amounts, such as vitamins and minerals	Taking in more calories than are used as energy	Ethnicity @ individua musc
2,000 calories per day	Osteoporosis, muscle cramps and an abnor	Arthritis	Bread, potatoes a
37 inches (94 cm) or more	30–39.9	It's essential for haemoglobin in the red blood cells, so that oxygen can be carried throughout the body	High b press
Bowel cancer	As adipose tissue beneath the skin, around internal organs, in the bone marrow, muscle and breast tissue	Minerals	Dais
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Dietary bingo - Card 2

- 1. Your teacher will read out a question.
- 2. One of you will answer and if you have the correct answer, mark it off on you card. It doesn't matter if you personally didn't come up to the the correct answer.
- 3. As soon as you have five in a row, shout out 'Ping 1. The can be vertical, hor diagonal. The first person with a row of "1 completed is the winner.

		·	
When the bones become so the lack of virthis hap the childhood, the bones bend outwards under the child's weight, causing a bow- legged appearance	It's essential for health of the eyes, the reproductive system and the immune system	A nutrient needed in very small amounts, such as vitamins and minerals	31.5 inche or m
Bread, rice, potatoes and pasta	Fruit and vegetables	Meat, fish, eggs and beans	Vitar
Type 2 (79 gg s	16 Jaiories per day	18.5–24.9	Stro
Protein	Osteoporosis and rickets	Osteoporosis, muscle cramps and an abnormal heart rhythm	Mine
Ethnicity and if the individual is very muscular	It's essential for haemoglobin in the red blood cells, so that oxygen car carried that you	J.J.ciúm .	Arth

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Dietary bingo - Card 3

- 1. Your teacher will read out a question.
- 2. One of you will answer and if you have the correct answer, mark it off on you card. It doesn't matter if you personally didn't come up to the the correct answer.
- 3. As soon as you have five in a row, shout out 'Ring and we can be vertical, ho diagonal. The first person with a row of five completed is the winner.

		T	
Sedenterry	Iron	2,500 calories per day	Coronar dise
Meat, fish, eggs and beans	Ethnicity and if the individual is very muscular	Taking in more calories than are used as energy	Stro
Type 2 diabetes	Osteoporosis, muscle cramps and an abnor	Protein	Bread, potatoes a
37 inches (94 cm) or more	A nutrient needed in very small amounts, such as vitamins and minerals	It's essential for haemoglobin in the red blood cells, so that oxygen can be carried throughout the body	Periods m
High blood pressure	As adipose tissue beneath the skin, around internal organs, in the bone marrow, muscle and brees, 1, 10	When the bones become soft due to lack of vitamin D. If this happens in childhood he by the lend out 'aras under the child's weight, causing a bow- legged appearance	Dais

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Dietary bingo - Card 4

- 1. Your teacher will read out a question.
- 2. One of you will answer and if you have the correct answer, mark it off on you card. It doesn't matter if you personally didn't come up to the the correct answer.
- 3. As soon as you have five in a row, shout out 'Bing and we can be vertical, how diagonal. The first person with a row of a completed is the winner.

Sedentary	Stroke	2,500 calories per day	Arth
Meat, fish, eggs and beans	Carbohydrates	Taking in more calories than are used as energy	Mine
A nutrient needed in relatively large quantities, such as protein, fats and carbohydrates	Osteoporosis, muscle cramps and an abnor	S Iron	Bread, potatoes a
37 inches (94 cm) or more	Coronary heart disease	It's essential for haemoglobin in the red blood cells, so that oxygen can be carried throughout the body	30 –3
31.5 inches (80 cm) or more	As adipose tissue beneath the skin, around internal organs, in the bone marrow, muscle and breast tissue	Ethnicity and if the individual is very muscular	Dai
7.0 7.0 10 duration		,	



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Dietary bingo - Card 5

- 1. Your teacher will read out a question.
- 2. One of you will answer and if you have the correct answer, mark it off on you card. It doesn't matter if you personally didn't come up to the the correct answer.
- 3. As soon as you have five in a row, shout out 'Bing and we can be vertical, how diagonal. The first person with a row of a completed is the winner.

Periods migne stop	health of the eyes, the reproductive system and the immune system	Iron	31.5 inche or m
Bread, rice, potatoes and pasta	Carbohydrates	Meat, fish, eggs and beans	High & press
Bowel cancer	2,500 calories per	30–39.9	Stro
Protein	As adipose tissue beneath the skin, around internal organs, in the bone marrow, muscle and breast tissue	Osteoporosis, muscle cramps and an abnormal heart rhythm	Taking i calories t used as
Calcium	It's essential for haemoglobin in the red blood cells, so that oxygen can be carried throughout the body	A nutrient needed in very small amounts, such as vitaming d	Arth
Zio Zog Education		, '	1



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Dietary bingo - Card 6

- 1. Your teacher will read out a question.
- 2. One of you will answer and if you have the correct answer, mark it off on you card. It doesn't matter if you personally didn't come up to the the correct answer.
- 3. As soon as you have five in a row, shout out 'Bing and we can be vertical, how diagonal. The first person with a row of a completed is the winner.

Stroke	2,500 calories per day	Osteop muscle cro an abnori rhyt
Carbohydrates	Taking in more calories than are used as energy	A nutrien in relativ quantities protein, carbohy
As adipose tissue beneath the skin, around internal organs, in the skin, and the skin, around internal organs, in the skin, and the skin, around the skin, a	Sedentary	Bread potatoes d
Coronary heart disease	It's essential for haemoglobin in the red blood cells, so that oxygen can be carried throughout the body	30–3
Arthritis	Ethnicity and if the individual is very muscular	Da
	As adipose tissue beneath the skin, around internal organs, in the skin with the skin	Carbohydrates Taking in more calories than are used as energy As adipose tissue beneath the skin, around internal organs, in the skin breast tissue It's essential for haemoglobin in the red blood cells, so that oxygen can be carried throughout the body Ethnicity and if the individual is very



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Activity 12 - Environment (Housing)

Teacher notes

	Plenary Activity: 'Spin the wheel'
Aim of the activity	To give students an opportunity to to their knowledge w
Teacher's instructions	Photo piece and one set of answers for each group. The photocopied on to card. Pin the wheel loosely to the with a paper binder and a washer so that the wheel will spin. Alternatively, the students could close their eyes and point to a pencil or finger, or insert a pencil through the centre and spin question that comes to rest on the surface. Divide group into multiples of four. There are eight questions of Students decide who is going to go first and who is going to he the wheel and answer whichever question is at the top beneath stops. If a question is selected again, students should aim to promised on the last go or expand on the previous answer. Students should be given a maximum of 15 minutes for this according to the students should be given a maximum of 15 minutes for this according to the students should be given a maximum of 15 minutes for this according to the students should be given a maximum of 15 minutes for this according to the students should be given a maximum of 15 minutes for this according to the students should be given a maximum of 15 minutes for this according to the students should be given a maximum of 15 minutes for this according to the students should be given a maximum of 15 minutes for this according to the students and the students are students.

Questions and answers

Give five aspects of living condition of an include a contribute to physiological Any five from the list below the solution and the solutions are solutions.

- damp and mou'്
- type of Tigging
 air poll takeaton
- poor cooking facilities
- exposed wiring

- overcrowding
- locality
- trip hazards
- damaged furniture

How could damp and mould arise in housing?

There are several causes, including:

- poorly fitting windows
- lack of ventilation

- poorly fitting doors
- leaking pipes

How can a local housing authority assess if a home is overcrowded?

A local housing authority is likely to use indicators such as:

- the number of rooms in a property
- the amount of floor space
- the number of people living there
- Explain why living in a high-tile approximent might be difficult for a parent will There are a range of policy and a faculties, including:
- ono eas அரச்சி s வரச்சியாகிலா space for the child to run around or play outdo
- lifts mage working, meaning the buggy either has to be left downstairs
 no back garden for the child to play in safely while parent gets on with chore
- outdoor play becomes very time-consuming, which is harder to do if parent
- getting washing dry more difficult, meaning several trips to launderette to dry damp washing inside trying to dry and making apartment damp or use of expansions.
- ullet may enhance parent's sense of isolation due to the effort and organisation $r \in \mathbb{R}$

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Give some advantages to living in an urban environment.

There may be several advantages to living in an urban environment, depending of personal preference. They could include:

- easy access to shops, schools and GP surgeries
- public transport readily available, such as buses, trains and trams
- plenty of leisure activities, such as cinemas, theatres, sports centres, libraries
- greater employment opportunities
- greater post-16 education opportunities, such as for a jes and universities
- public parks and playgrounds easily 🛵 🔌 🖫

Give some advantages to A. A. d. ... a rural environment.

There may have a larges to living in a rural environment, depending on the personal property of the could include:

- cleaner
- close to nature, with opportunities to enjoy wildlife, etc. readily available
- more personal space, which may reduce stress
- less noise and light pollution, which may reduce stress and improve sleep
- good opportunities for free exercise, such as walking and cycling
- may be easier to reduce living costs by growing own vegetables and fruit

Give some disadvantages to living in an urban environment.

These will depend on personal preferences and circumstances but may include:

- greater air pollution, giving rise to respiratory disorders
- greater noise pollution, adding to sense of stress
- greater light pollution, which may impact on sleep
- no easy access to free, open spaces may have to travel some distance to re
- many leisure facilities are expensive
- more likely to have high-rise housing, such actions which may add to
- local services, such as hospitals ﷺ '5₽ ﷺ eries, likely to be in high demand
- pressure on space means and fields are likely to be too so children

Give some antages to living in a rural environment.

These will depend on personal preferences and circumstances but may include:

- may have to travel several miles to reach services, such as shops, hospitals, G
 secondary schools
- public transport likely to be infrequent and expensive
- more likely to have to rely on a car, which is expensive
- fuel is often more expensive in rural areas
- may not have neighbours, so may feel very isolated
- may have to travel in order to find employment, which increases travel costs
- children likely to have to move away from the area if they choose to go to ur
- limited local employment opportunities, especially better paid and highly qualities
- emergency services may take longer to reach people
- housing likely to be more expensive, as rural areas b considered more







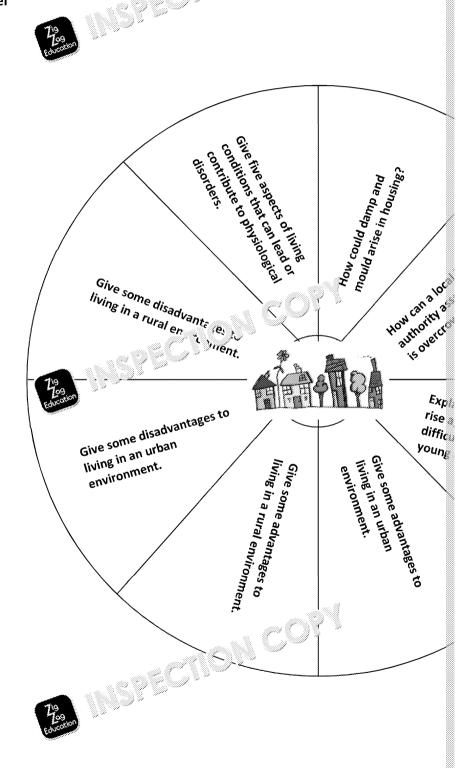
Activity 12 - Environment

'Spin the wheel'

Your teacher will put you into groups. Decide who is going to go first and who is Spin the wheel. When it stops, answer the question that the arrow is pointing to

Then repeat the activity with the next student and 32 on atil you have all had a and checking the answers.

Wheel



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Gpin the wheel? Wheel background

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Activity 13 - Environment (air pollution)

Teacher notes

	Starter Activity: 'Fishbone'
Aim of the	To enable students to gain confidence and skill in analysing a d
activity	findings in specific categories. Divide students into pinch numbulals.
Teacher 13	Give students into produce students in the cause and effect or recommendation categories on the table below provides suggestions of causes and effects effects effects and effects
	The teacher can either discuss the report with the whole group can discuss ideas with pairs or individuals during the activity.

Suggestions for causes, effects and recommendations

Cause and effect	Recom
Every year in the UK, outdoor pollution is	To reduce deaths, the governmen
linked	should work together to make lor
The impact of air pollution on public health costs	
the UK more than £20 billion per year, which is	Promote alternative transport, such
just under 16% of the current annual NHS budget	transport and electric/hybrid cars.
of around £116bn.	
In the UK, there are a number of substances that	body strice who sin pollution
contribute to air pollution, including particulate	Industries using the air pollution
matter and nitrogen dioxide.	ि इन्हें or julity for harming health.
The 'cleanest' of engines can produce nitrage	เพื่อnitor air pollution levels, ensur
oxides, ozone and particulates	reported.
Particulate matter happers 2. 65	Local authorities should act to pro
has been by g : anto particles as	pollution levels are high, such as t
they degra	control.
The particle inselves are of varying sizes,	
which decides how far into somebody's lungs	Regulators and local governments
they can reach. The smaller the particles the	poorer areas are not put at greate
further into the lungs they can penetrate.	
Nitrogen dioxide is a product of road traffic and	Protect groups that are at increase
the burning of fossil fuels.	children, older adults and people
Like particulate matter, it contributes especially	
to respiratory disorders such as asthma and	Set levels of pollutants to ensure
bronchitis, and may make COPD worse.	
Air pollution may also occur indoors, from	
sources such as gas cookers, smoking, damp and	Research the links between indoo
mould, cleaning products, cigarette smoke and	the key risk factors.
carbon monoxide.	
There is evidence that exposure to pollutants	Furt' se ch is needed to imp
throughout life	gió ာ် နှင်းal and economic trend
Air pollution has been linked to cancer has	
disease, dementia, type 2 diabets / ue live di	Improve air pollution monitoring
lung function, problems 🗀 🥦 "evelopment	,, an policion mornioning
and cognitive lity sehma.	
There is all jog io-economic factor, in that	
poorer peop dive in lower-quality	Research into the effects of air po
environments and are more exposed to air	institution and effects of all po
pollution.	

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Activity 13 - Environment

Report on air pollution

What air pollution is, its causes and effects

Air pollution means contamination of the air with differer states, such as gases or solid particles, which will cause harm to had had carries on for long enconcentration. Every year in the UK, outright library is linked to around 40,000 pollutants are taken into account with a fact of air pollution on public health copper year, which is just up a law on the current annual NHS budget of around £13

In the UK, the a number of substances that contribute to air pollution, including nitrogen dioxide. Particulate matter is made up of a wide range of different solids smoke, and the 'cleanest' of engines can produce nitrogen oxides, ozone and particulate matter is made up of a wide range of different solids smoke, and the 'cleanest' of engines can produce nitrogen oxides, ozone and particulate when a fuel has been burnt or gases turn into particles as they destructed the survey of varying sizes, which decides how far into somebody's lungs the particles the further into the lungs they can penetrate.

Promoting alternative transport, such as walking, cycling, public transport and elevels of particulate matter. However, other measures should also be put in place authorities and industry must work together to make long-term changes and industry pollution need to take responsibility for harming health.

Air pollution levels should be monitored, ensuring that serious incidents are reported to protect public health where air pollution levels are high such as by closing. This also means that levels of pollutants need to be set in ure clean air. Better air pollution monitoring and it's also important to important to import and air pollution levels are affecting air quality in the life in the composition of the composition in the life in in th

Nitrogen di personali a couct of road traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and the burning of fossil fuels. Like personali traffic and traffic

There is evidence that exposure to pollutants throughout life, from pregnancy to influences, although the harm to unborn babies and young children is not as stropped because there isn't much research or that the effects on the baby and child make example, the damage done by air pollution in childhood may not become obvious further research into the effects of air pollution on health is needed.

Air pollution has been linked to cancer, heart disease, dementia, type 2 diabetes problems with brain development and cognitive ability and thma. The government groups that are at increased risk of health problems, including children, of chronic health problems.

There is also a socio-ec and account, in that poorer people tend to live in lower-comore exposition air and account and local governments must ensure the not put at grown isk from air pollution.

Sources:

https://www.nhs.uk/news/heart-and-lungs/air-pollution-kills-40000-a-year-in-the-uk-says-report/https://uk-air.defra.gov.uk/air-pollution/effects

https://www.london.gov.uk/what-we-do/environment/pollution-and-air-quality/health-and-exposititys://www.greenfacts.org/en/particulate-matter-pm/level-2/01-presentation.htm

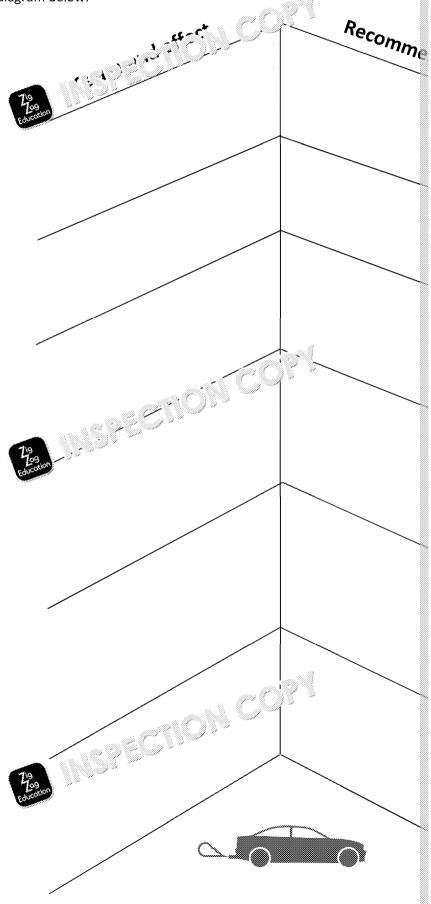
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Activity 13 - Environment

'Fishbone'

Read the report summary about air pollution. Decide whether the information is air pollution or a recommendation on how the problem could be reduced and confishbone diagram below.



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Activity 14 - Signs and symptoms experience the individual

Teacher notes

	Plenary Activity: Timed multiple-choice quiz
Aim of the	For students to work in pairs or ant, it wally, testing their know
activity	symptoms.
	Put student of only or as individuals.
Teacher Education	You have read out each question and the choices or hand
instructions	Once students have finished, go through the answers. On the to been highlighted.
	Aim to give a time limit of 30 seconds for each question.
	Activity should take approximately 11 minutes.

Answers

- 1. Signs
- 2. Symptoms
- 3. Weeping
- 4. Where the skin becomes cracked and thickened as a result of contact with the
- 5. Spots, itchiness and colour
- 6. By red spots that may be widespread across the body that don't disappe
- 7. Asthma
- 8. Swelling
- 9. It could be hot, red and painf
- 10. When pressed with க்கி நட்டு கூட்டி indents and leaves an impression
- 11. Respiration no continuo systems
- 12. Standing periods and being immobile
- 13. Acute
- 14. From its position in the body and when it occurs
- 15. Fibromyalgia and arthritis
- 16. Neuropathic
- 17. Use a visual pain scoring chart
- 18. An altered mental state
- 19. Not knowing where they are; not knowing their identity; being agitated, restlement
- 20. Infection
- 21. Delirium is usually fairly short-lived while dementia is longer-term and is like
- 22. Dehydration and hypoglycaemia



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Activity 14 - Signs and symptoms experienced by

Timed multiple-choice quiz

Answer the following multiple-choice questions, by circling the correct answer. You have 30 seconds for each question.

- 1. What is the term that means something about a list feethat's noticeable by
 - a. Medical history

າ" _aນເປົກຣ

r

- 2. What is the term that a person would be with the term that a person would be a disorder than the disorder that a person would be a disorder than the diso
 - a. Sympiams

b. Medical history

^

- 3. What is weekerm used to describe where a skin condition, such as a rash, see usually clear?
 - a. Leaking

b. Weeping

c.

- 4. What is contact dermatitis?
 - a. Occurrence of a red rash that develops a silver centre
 - b. A sense of irritation when taking cold calls from a call centre
 - c. Where the skin becomes cracked and thickened as a result of contact w
- 5. Give three aspects of a rash's appearance that might give a clue to the cause
 - a. Spots, itchiness and colour
 - b. Smell; if it has a zigzag appearance; if it comes and goes
 - c. If it appears after eating; if it appears on a school or college day; if it ha
- 6. How could a meningitis rash be recognised? 🥟 🦳
 - a. By red spots that form pustules a en crusts
 - b. By red spots that may be wise and across the body and that don't disaglass
 - c. By possible weep clear fluid
- 7. What physiological disorder is often associated with eczema?
 - a. Coronary heart disease
- b. Hypothyroidism
- c.
- 8. What term is used to describe the results of inflammation or the collection
 - a. Weight gain

- b. Swelling
- c.
- 9. What would suggest infection or severe inflammation of a joint?
 - a. It could be hot, red and painful
 - b. Reduced circulation, causing the skin around the joint to go white
 - c. Red and black spots on the skin around the joint
- 10. What is pitting oedema?
 - a. When the skin develops a rough texture in the skin develops a rough texture in the skin develops are pips just a skin develops are pips are pips
 - b. When the tissues are so full of fline at Lay seep yellowish fluid through
 - c. When pressed with a fir and the said indents and leaves an impression
- 11. Which the page of the linked with pitting oedema?
 - a. M keretal and respiratory systems
 - b. Reseatory and circulatory systems
 - c. Nervous and circulatory systems

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12. Give the two most common causes of swelling in the lower legs.

- a. Standing for long periods and being immobile
- b. Blood clot in a deep vein and the contraceptive pill
- c. Malnutrition and kidney disease

13. What term is used to describe pain that lasts less than 12 weeks?

a. Chronic

- b. Intermi*
- c.

- 14. Give two ways of assessing someboo, in an analysis of assessing someboo, it is a new two ways of assessing someboo.
 - a. From its position in the war winen it occurs
 - b. By pinching the of the and stabbing them with a tiny pin
- 15. Name two disorders that are likely to cause chronic pain.
 - a. Asthma and Parkinson's disease
 - b. Diabetes and hyperthyroidism
 - c. Fibromyalgia and arthritis
- 16. Pain that occurs as a result of a primary lesion or a problem in the nervous san amputation, is known as what?
 - a. Neuropathic

- b. Chronic
- c.
- 17. How could a care professional assess the pain in an individual with communication English speaker?
 - a. Use a visual pain scoring chart
 - b. By pressing different parts of the individual's body to see if they react
 - c. By speaking very slowly and in an extra-loud
- 18. What is meant by the term 'disorial a and
 - a. Getting lost when the to plow a map
 - b. Losing person sections, such as mobile phones and car keys
 - c. A 19 ed parcal state
- 19. Give three symptoms of disorientation.
 - a. Having the map upside down; being aggressive; forgetting the names o
 - b. Not knowing where they are; not knowing their identity; being agitated
 - c. Hallucinating; wandering around; losing bus or train tickets
- 20. Give one possible cause of delirium.
 - a. Being late for an appointment
 - b. Infection
 - c. Too much salt in the diet
- 21. What is the difference between delirium and dementia?
 - a. Delirium is usually fairly short-lived while deme as longer-term and
 - b. Delirium and dementia are both spelt di rei nt y
 - c. Delirium occurs in people belay (1) ge of 65 and dementia occurs about
- 22. Give two causes of the factor.
 - a. D tic valua nypoglycaemia
 - b. No gh sleep and drinking too much strong coffee
 - c. Eating too many sugary and fatty foods and eating too much processed

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Activity 15 - General measurements

Teacher notes

	Starter Activity: Match-up
Aim of the activity	To enable students to check their own to ledge at the begin
Teacher's instructi	This activity may be done has dents as individuals or pairs. Photo and them out. Students have to draw a line, matching the answer. Give students 10 minutes to complete this activity. Go through the answers.

Questions and answers

Question/Statement	
In blood pressure, the level of resistance in the artery wall when blood is being pumped out of the ventricles into the aorta	Systole
In blood pressure, the level of resistance in the artery wall between heartbeats	Diastole
What is a 'normal' blood pressure reading?	120/80 mm
What is the name of the instrument used to take a blood pressure	Sphygmon
reading?	Spriygirion
The lower chambers of the heart. The right chamber pumps blood to the lungs for reoxygenation and the left pumps freshloxygenated blood around the body	Ventricles
One of the main arteries supplying the arm	Brachial art
Low blood pressure of 90/60 mm' リックトライ	Hypotensic
High blood pressure, 140/00 ur higher	Hypertensi
Dementia carried land the blood vessels in the brain	Vascular d€
A cause of 199 en 30n	Fluid loss d
Some effects of hypertension	Kidney failu
· ·	eyesight pr
Term used to describe a temperature reading taken in the armpit	Axillary
Term used to describe a temperature reading taken in the ear canal	Tympanic
An internal body temperature of 35 °C or below	Hypotherm
	The elderly
Groups especially vulnerable to hypothermia	those who
Groups especially valificable to hypothermia	weather or
	consumed
An internal body temperature of 37.5 °C or above	Hyperthern
Two causes of a raised body temperature	Heatstroke
The blood vessels supplying the limbs, such as arms and legs fingers and toes	Peripheral (
	The body r
	temperatur
How does the body manage its men a more mature during an	This is beca
infection?	such as pro
	to fight the
709	to a rise in
Some effects on the body of a temperature above 38.5 °C	Convulsions vomiting
Sepsis	Failure of s
	peripheral

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Activity 15 - General measurements

Match-up

Match the question/statement with the correct answer. Either draw a line or put answer box (right).

Question/Statement	77
In blood pressure, the legislance in the artery which was being pumped out of the legislance in the aorta	1
In blood pressure, the level of resistance in the artery wall between heartbeats	2
What is a 'normal' blood pressure reading?	3
What is the name of the instrument used to take a blood pressure reading?	4
The lower chambers of the heart. The right chamber pumps blood to the lungs for reoxygenation and the left pumps freshly oxygenated blood around the body	5
One of the main arteries supplying the arm	6
Low blood pressure of 90/60 mmHg or below	7
High blood pressure, 140/90 mm na higher	8
Dementia 1991 by Mage to the blood vessels in 1999 n	9
A cause of hypotension	10
Some effects of hypertension	11
Term used to describe a temperature reading taken in the armpit	12
Term used to describe a temperature reading taken in the ear canal	13
An internal body temperature of 35 °C or below	14
Groups especially vulnerable to hypothermia	15
An internal body temperature of 37.5 °C or above	16
Two causes of a raised body temperature	17
The blood vessels supplying the limbs, such	1.
as arms and legs, fingers and toes	10./
How does the body manage of the first temperature during the stion?	19
Some effective he body of a temperature above 38.5	20
Sepsis	21

	The body respon	ä
	temperature con	ň
	This is because tl	*
	such as producin	8
	to fight the invac	())
	to a rise in tempe	
	Hyperthermia	
	Peripheral circula	
	The elderly; babi	700
	those who have	
	weather or cold	
	consumed alcoho	
	consumed arcon	2
	Fluid loss due to	ii
	Sahyamamanam	
	Sphygmomanom	
	Hypotension	
	Hypertension	
	120/80 mmHg	
	Districts	
	Diastole	
	Ventricles	
	Convulsions, deli	
	vomiting	Ä
	Systole	
	<u>, </u>	
	Brachial artery	
	•	
	Axillary	
	Heatstroke or inf	
1	Hypothermia	
	Vascular dement	
	Tympanic	
	Failure of severa	
	the peripheral ci	
	death	
	Kidney failure, st	
	eyesight problen	

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Activity 16 - Investigations appropriate to ea individual

Teacher notes

	Plenary Activity: Case styly and diagnosis
Aim of the	To enable students to decide passification needed and
activity	individual's medical ന് പ്രൂ gns and symptoms.
	Put student fog sups of 2-4. Give them 10 minutes to read
Teacher's instruction	
Educatio	When time's up, discuss the possible answers with the group.

Answers

Question	Possible responses
What diagnosis might you immediately think of, based on Anuj's story?	Angina Coronary heart disease
What aspects of Anuj's family history are going to be important and why?	 Ethnic origin: people from south Asian backgroup Bangladesh, are more at risk of developing corolline. Family history: if a father or brother was under 5 coronary heart disease, the individual is consider the disease.
What questions might you ask Anuj about his lifestyle and habits and why?	 Diet: Anuj may be each a st high in ghee and his risk of colon ry had disease. Alcala a shoking cigarettes: he may be drinker and another are shoking disease. Any amount of cigarette smoking will increase he exercise: although he seems to be active in his journal of the seems and sometimes and sometimes and sometimes and sometimes and sometimes. Stress: Anuj may find that periods of stress and sometimes.
What blood tests might you order and why?	 Lipid levels, such as high and low density lipoproforms of lipids can indicate if Anuj is at risk of co Full blood count, which will include a measurement Anuj is anaemic, any angina he has could be made an Erythrocyte sedimentation rate (ESR): there is so prolonged ESR may be helpful in diagnosing and



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Activity 16 - Investigations appropriate to each

Case study and diagnosis

Anuj is 51 years old. He is a marine engineer in a small c in any that makes have built boats, so gets very involved in all aspects of the bosiness, from drawings to finishing touches. Anuj's family originally of from Delhi, India, although Anuj been living in the UK since he is fixed that sold.

Anuj's fating of good food or health care.

Over the last few months, Anuj has noticed that he experiences chest pains and breathlessness when he has to climb stairs or the ladders on the partly built book when he's checking on their progress.

Imagine you're a trainee GP at a GP surgery when Anuj comes to see you. You present your assessment and possible diagnosis with your supervisor and mention meeting.

GP Tro	aining Programme: Patient assessment
Question	Your respor
What diagnosis might you immediately think of. h	
What aspects of his family history are going to be important to you and why?	
What questions might you ask him about his lifestyle and habits, and why?	
What blood streets order, and Roycetton	

Continue on a second page if you need to.

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Activity 17 - Procedures based on specific signand symptoms

Teacher notes

Starter Activity: 'Streed dating'
To give students an opportunit to be and share their knowledge
making them feel ஹ சல், ுருக்கிe about taking risks with the
Photocopy top sand answers shown below, one copy for the copy for and blank answer page for each 'note-taker'. (Cut
Put the students into pairs. One student will be the 'expert' and taker. Experts should sit in designated seats and will have a cop
note-takers will have one minute in which to ask the experts a canswers on their worksheets. At the end of the minute, note-taken and repeat the process. Students should be given a maximum

Additional Resources: a stopwatch

Questions and answers

Questions	Answers
What is cerebrospinal	Cerebrospinal fluid is the clear fluid that surrounds the b
	protect the brain from injury, distributes substances and nervous system.
	hervous system.
fluid?	It's made by the ventrick కొగ్నార్లు prain, which produce a
	at a rate of about 125 150 ml present at any and
	there is used young about 125–150 ml present at any on in far puncture is a procedure during which a thin ne
What is a lung	vertebrae of the lumbar area of the spine. The needle pa
puncture? 109	spinal cord, which is filled with cerebrospinal fluid.
	A lumbar puncture is carried out for a range of reasons,
Explain why a lumbar	to diagnose a condition, such as meningitis
puncture might be performed.	 to inject medicines, such as painkillers, antibiotics of to inject a spinal anaesthetic (epidural), for surgery
perjormed.	to inject a spirial anaestnetic (epidural), for surgery to remove extra cerebrospinal fluid to reduce pressi
	Risks can include:
	• swelling and pain in the lower back, where the nee
Explain two risks	gets better by itself and may happen occasionally.
attached to a lumbar	 headaches, which can last up to a week. these are a tingling or pins and needles if the needle touches a
puncture.	occasionally.
	paralysis from the site of the sumbar puncture down
	the procedure is ca ಗ್ರೇತ್ರ ಇಸ್ತಿ ಶಿy a highly trained hea
Explain the care that	After the lum' () ure, the service user will rest lying
should be given	while ं राप उच्छ staff will monitor their blood pressure, ं बी., people go home that day although they shouldn
following a light	whether somebody goes home or not depends on the re
puncture. Too	being done. If it's to check for an infection, the individual

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Questions	Answers
<u> </u>	A biopsy is when a doctor takes a small amount of tissu
	the surface of the body.
What is a biopsy and what are two reasons why it might be performed?	The word 'biopsy' means: the procedure by which the tissue sample is taken the tissue sample itself
po.,10	Biopsies are usually carried out wo reasons: • if the organ is sworen
	if the orc functioning properly
	• if mei ்கள் infection, such as tuberculosis
	erevel of inflammation, such as in the liver or ki
What co. 18 op opy	what stage a cancer has reached
indicate? Education	what the prognosis could be for the service userthe diagnosis of a skin condition
	what sort of treatment may be recommended
	if the tissue cells are abnormal, such as cancerous
	Any two from:
	Punch biopsy: when an instrument obtains a tissue hole in the skin.
	Needle biopsy: when a hollow needle is used. Un
Explain two different	needle is passed through the skin and takes a tissubeneath.
types of biopsy.	Endoscopic biopsy: an endoscope is a flexible tub
	can be passed into the service user through the m
	Excision biopsy: when a small piece of tissue will examination.
	Perioperative biopsy a sig in operation, the su
	tissue for examination.
Explain why a bone marrow biopsy might	• Coultain se gate disorders such as leukaemia or
be carried control which be to the which be used.	The sample is often taken from the top of the pelv
Explain what an	A way of preventing somebody feeling pain during
anaesthetic is and the	A local anaesthetic is a gel or injection to the imm
difference between a	probably be able to go home that day.
general and local	A general anaesthetic means somebody is 'put to'

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complete. If it's a general anaesthetic, they may n

anaesthetic.

Activity 17 - Procedures based on specific signs a

'Speed dating'

Note-taker worksheet

Questions	Answers
What is cerebrospinal fluid? The state of t	
Explain why a lumbar puncture might be performed.	
Explain two risks attached to a lumbar puncture.	
Explain the care that should be given following a lumbar puncture.	
What is a bing a. (b) are two reaso 1900 it might be performed.	
What could a biopsy indicate?	
Explain two different types of biopsy.	
Explain why a bone marrow biopsy might be carried out and which bone is often used.	
Explain what an arce is and the difference of a general an arce anaesthetic.	

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Activity 18 - Importance of recognising non-sor confusing symptoms

Teacher notes

	Plenary Activity: Carestudy (letter)
Aim of the activity	To give students an opportait, the apply their knowledge about
Teacher's instructions	Get studen to coups of between 2 and 4 and give a copy of his a out the case study page, along with the letter fill-in page are pretending to be Jasmine's GP and are explaining to her: 1. what tests the GP will want to carry out and why 2. what the criteria are for diagnosing ME Give two minutes to read the case study and a further 10 minute of the coups of the coups wap responses and mark each other's while you all discuss the possible answers and ask students to check their own work.

Answers

1. What tests the GP will want to carry out, and why

There are a number of tests the GP will need to carry out, including:

- blood tests to exclude anaemia, underactive thyr in iver and kidney pro-
- taking a detailed medical history, to find at the har jasmine's symptom they affect her
- carrying out a thorough any i samination of as many body systems unusual and an ും പ്രവര്ദ്ദേ
- a place of the control of the c
- test to exclude other possible disorders, such as tuberculosis, heart dise

2. What the criteria are for diagnosing ME

NICE have guidelines for the diagnosis of ME. They include:

- The ruling out of all other possible diagnoses, through careful testing ar
- The symptoms should have been present for at least four months.
- The symptoms should have started suddenly or be very new (i.e. not life)
- The symptoms should last a long time.
- The symptoms should keep coming back.
- The symptoms should get worse after gentle exercise, such as a short wall
- The person can't do the things they used to do.



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Activity 18 - Importance of recognising non-specific or

Case study (letter)

Jasmine is 24 years old and a qualified midwife, working in a lusy city hospital. In her own time, Jasmine usually goes to the gym three so week and enjoys socialising with friends. She loves her in a disprobking forward to a challenging and fulfilling career.

However, over the least onths this has all stopped as Jasmine has developed in the Julike symptoms, headaches, a sore throat and extreme exhaustion. If you like symptoms, headaches, a sore throat and extreme exhaustion. If you like symptoms, headaches, a sore throat and extreme exhaustion. If you like symptoms, headaches, a sore throat and extreme exhaustion. If you like symptoms, headaches, a sore throat and extreme exhaustion. If you like symptoms, headaches, a sore throat and extreme exhaustion. If you like symptoms, headaches, a sore throat and extreme exhaustion. If you like symptoms, headaches, a sore throat and extreme exhaustion. If you like symptoms, headaches, a sore throat and extreme exhaustion. If you like symptoms is a sore throat and extreme exhaustion. If you like symptoms is a sore throat and extreme exhaustion. If you like symptoms is a sore throat and extreme exhaustion. If you like symptoms is a sore throat and extreme exhaustion. If you like symptoms is a sore throat and extreme exhaustion is a sore throat and extreme exhaustion. If you like symptoms is a sore throat and extreme exhaustion is a sore throat and extreme exhaustion. If you like symptoms is a sore throat and extreme exhaustion is a sore throat exhaustion is a sore throat extreme exhaustion is a sore throat exhaustion is a sore throat

Jasmine is very worried and has visited her GP. She has looked up her symptoms online and thinks she may have myalgic encephalomyelitis (ME).

Read the case study above and imagine that you are Jasmine's GP. You know Jas professional, with some knowledge and understanding of her symptoms and the also realise that she's frightened and anxious, as well as feeling so unwell that she everything you discussed during the consultation.

In a letter to her, you are going to explain to her:

- 1. what tests you will want to carry out which
- 2. what the criteria are for diagues റ്റ്റ് . 🐔

Write your 🚄 🚅 et 🚼 🏸 e box below. It has been started for you. Go on to a se

Dear Jasmine,

I understand your signs and symptoms are puzzling and worrying for you, so that we're arranging for you and why they're necessary. Following our discussion outlined the criteria for diagnosing myalgic encephalomyelitis (ME), so that you informed discussion with me at our next meeting, after your test results are be



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Activity 19 - Medication

Teacher notes

	Plenary Activity: Black and green mind map
Aim of the activity	To enable students to feel secure in the k owledge of anti-inf
Teacher's instructions	Hand (12.2) and black and green pens, one for each group. Go through the mind map with the whole class. Then tell stude mind map face down. Using the black pen, students must repromind map in the time that you choose to give them, such as five The whole activity should take a maximum of 15 minutes. The first words of each text box have been left, to give a clue at the activity short. Students turn the information mind map over and students must repromine the maximum of 15 minutes. The first words of each text box have been left, to give a clue at the activity short. Students turn the information mind map over and students must repromine the maximum of 15 minutes. The first words of each text box have been left, to give a clue at the activity short. Students turn the information mind map over and students must repromine the maximum of 15 minutes. The first words of each text box have been left, to give a clue at the activity short. Students turn the information mind map over and students must repromine the maximum of 15 minutes. The first words of each text box have been left, to give a clue at the activity short. Students turn the information mind map over and students must repromine the maximum of 15 minutes. The first words of each text box have been left, to give a clue at the activity short.

Additional resources:

You will need:

- black pens
- green pens





Activity 19 - Medication

Black and green mind map

Read through the information on the mind map. Then turn it over and, using the

When your time is up, turn over the original mind map and compare your information. Use your green pen to fill in the gaps.

If time allows and you need to, repeat the activity with a second blank mind map fill in most of the boxes with your black pen and have much, is green.



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Answers (example flow chart):

Antiinflammatory
drugs

Inflammation is a natural response by the body to injury. The affected part can become red, hot, swollen, painful and experience loss of function. Sometimes, a person will develop a chronic inflammation as part of a disorder as happer theumatoic.

Anti-inflammatory drugs help to:

- relieve pain
- improve the function of the damaged part of the body by reducing to body's inflamm. Education

response

There are two main 'p. 'c' anti-inflagation is edicines:

or a spoidal antiinflamatory drugs (NSAIDs)
and corticosteroids.

NSAIDs are commonly used to relieve pain and inflammation in a range of conditions, such as period pains, sprains, arthritis, flu and colds. They can also bring down a high temperature.

The available in a range as such as tablets, capsules, suppositories, creams, gels and injections.

There are certain groups who should avoid them altogether, including people with liver or heart failure and those with a stomach ulcer. Some other is ici of for example of the liver of th

The body naturally produce corticosteroids in the adressituated just above the kid those taken as medicines as made version.

Corticosteroids produce side effects, including:

- difficulty sleeping
- increased appetite
- mood changes
- raised blood pressure
- raised blood sugars
- loss of bone density, causing weak bones
- papery skin that tears easily
- 'moon' face, as the face becomes more round

If the service user stops them with they may experience some unpless

- weakness
- aches and joint pains
- severe fatigue

Possible side-effects:

- worsening of asthma symp
- allergic reactions, such as a
- nausea and vomiting
- kidney failure

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Activity 20 - Surgery

Teacher notes

Starter Activity: Surgery – Define and cloze par		
Aim of the activity	To give students an opportunity to familiar se themselves with apply it in a paragraph.	
Teacher's instructi 19	In pairs or individually ts at to define each given term as be used to cor press. paragraph below. Comminute per definition (14 minutes), plus a further two paragraph. When ready, go through the answers and check knowledge and	

Answers

Words used: Where a term has more than one word, each word is found individual

Word	Definition	
biopsy	A piece of tissue removed from the body for the inve	
central venous catheter	A line inserted into a large vein, so that treatments m	
chemotherapy	Drugs used to kill cancer cells	
control symptoms	If a cure isn't possible, chemotherapy and surgery may symptoms	
cure	When a cancer is company adjusted	
diagnosis	Reaching a decorate the type of cancer or disorder medicant a character a diagnosis.	
extend life	er can't be completely cured, surgery may en	
mastecto no	The removal of breast tissue by surgery	
prevent	Surgery may be carried out in people with a high risk the disease. For example, women with a family history have their breasts removed	
reconstruction	To recreate a body part following trauma or surgery the breast following mastectomy	
reduce risk	Surgery may be carried out in people with a high risl the disease. For example, women with a family history have their breasts removed.	
surgery	When an operation is carried out on the body for a rate removing something that's causing a problem	
treatment	A means of reducing or eradicating signs or symptom as a result of a disorder	
tumour	A collection of cells in an indicate I's body that are di	

Cloze paragraph: Words missing from the control of the control of

Surgery is used in cancer of the ge of reasons, such as a <u>biopsy</u> to provide tissumay also be as a cancer of the control symmetric cancer arising in the first place.

It's also used as part of other treatments for cancer. For example, a line may be in chest for **chemotherapy** to be given more easily. This line is known as a **central v**

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Activity 20 - Surgery

Define and cloze paragraph

Write a brief definition for each word in the table below. One has been done for Then use some of the words (not all) to complete the paragraph below.

Word		 Definition
VVOIU		Definition
biopsy	A piece ('(si) semoved from the l	body for the in
central ver		
chemotherapy		
control symptoms		
cure		
diagnosis		
extend life		
mastectomy		
prevent		
reconstruction		
reduce ris.		
surgery		
treatment		
tumour		
Surgery is used in cancer fo	or a range of reasons, such as a	
for	may also be	e used as a trea
cancer; for	of part of the body so gas a _	_
<u>, </u>	_ symptoms raci	risk or
arising in the first place.		
It's also usec	er treatments for cancer. For example,	, a line may be i
chest for	to be given more e	asily. This line i
	.	

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Activity 21 - Rehabilitation programmes

Teacher notes

Plenary Activity: case study and advice			
Aim of the	To enable students to apply their knowledge and understanding		
activity	especially physiotherapy, to a carry to a		
	Put students into grou4 and get them to read the case		
Teacher's	Teacher's answer the curaco. The table below (10 minutes).		
instructions			
719	۲ کے پیش then go through their responses as a whole class or		
7109			

Questions and possible answers

2.	How will I know what exercises to do at home? What sorts of exercise am I likely to have to do?	 We will go through the exercises together in the Life of I will show your parents what exercises you have I will give you a printed sheet with pictures and Passive: ones that I will do for you, while you reachilles tendon. Active: exercises that you have to do, such as constructed the surgery and the plaster cast. Strengthening the muscles, as they will have bein injury, the surgery and the plaster cast. Balance strengthening as pur balance will have
3.	Why might I need ultrasound?	the surgery and in profer cast. To accomplish home, reduce pain and any swe
4.	Will I 1 le : . ! in mo 129 again?	 instructions, you should be able to return to m You must wait until your ankle has fully recove permission by your physiotherapist and your d
5.	Will my ankle be as good as it was before the accident?	 As long as you carry out your exercises and wo strength and restore your balance, your ankles. However, you are likely to develop osteoarthrit much older, such as in your fifties. If you don't follow your rehabilitation program have continuing pain, swelling and stiffness.



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Activity 21 - Rehabilitation programm

Case study and advice

Zack is 16 years old. His main interest is motocross; he has won several recent competitions and is thinking of a career involving motorby. In and motocross. Zack's parents are very supportive of him and motocross a family activity, with his younger sister also taking part

However, he landed a Accounting a recent competition and fractured his left an account of which with pins and plates and immobilised with a plaster cast removed, as the wounds have now had time to heal, and he has been told that he will have to go through a physiotherapy programme to help his recovery and rehabilitation.

Zack is anxious about the physiotherapy. He's afraid he won't be able to compete again and that he won't be able to follow the career path of his dreams and is also very unsure about being able to carry out the exercises at home, even though his parents have promised to help him.

Read the case study above and imagine you are Zack's physiotherapist. You have produce a Question and Answer sheet for Zack, which will address his concerns at he can read as often as he needs to, to remind himself of what you told him during physiotherapy sessions.

For each question, write in the advice and the will give to Zack when you next me Continue on a separate sheet and arguiryou need to.

1.	How key now what exercises to do at home?	
2.	What sorts of exercise am I likely to have to do?	
3.	Why might I need ultrasound?	
4.	Will I be able to ride in motocross again?	
5.	Will m, ankle be as good as it was before the accident?	

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Activity 22 - Complementary therapies

Teacher notes

Plenary Activity: Advantages and disadvant		
Aim of the activity	To give students an opportunity to devel their skills in analysadvantages and disadvantages of acone apy.	
Teacher's instruct 19	Put students into pair skillem to focus on either acupular should read the angle we minutes) and complete the appropriate both when a students could share the students could share the team back up with their partner that studied the other therapy. Then discuss responses to the final questions for five minutes.	

Answers

Acupuncture Advantages	Acupuncture Disadvantages	Aromatherapy Advantages
On NHS	It's not always available on NHS, so could be expensive	Pleasant to use because it smells nice
Recognised by NICE for treatment for headaches and migraines	The service user would have to travel to the acupuncturist	Easy to use
Some healthcare practitioners are also acupuncturists	It can have sict a gri	pre can use it themselve without needing a professional practitioner
79	> Amuch evidence to show that it works	Easy to get hold of the materials
Education		Can be empowering for individuals to treat themselves, such as when somebody has cancer

Which complementary therapy would you advise for an individual with can

- Depends on: personal preference; how much money the service user has; has a qualified practitioner; if the service user feels well enough to go out to an
- Service user might like the gentleness and relaxation of aromatherapy mass
- NHS acupuncture might be cheaper than buying essential oils, as long as see
- There's more evidence of effectiveness for acupuncture than aromatherapy

What other information might you want to know before deciding which the

- Local cost and availability.
- How the practitioners are trained and regulation fell trained and profes
- Exactly what the risks are for each thou







Activity 22 - Complementary therapi

Advantages and disadvantages of acupuncture

Acupuncture is a well-known complementary therapy. Some medical professionals are also qualified acupuncturists and acupuncture is available on the NHS in some areas. In traditional Chinese acuranter Qi, the life force, travels through the body in 'meridian' control cure aims to restore the free flow of Qi by inserting the real as an afferent points on the body. Research suggests the need' professional suggests the need's are sensory nerves just under the skin and in the must as. The produces substances such as pain-relieving er an acupuncture boosts the sense of well-being. The substances should feel no pain when the needles are inserted, although they may feel tingling or a dull ache. The most commonly used sites are the lower arms and legs.

Acupuncture is used to treat a wide range of disorders, including:

- chronic, tension-type headaches and migraines. NICE approves of acupunct
- dental pain and pain following surgery
- neck and joint pain
- nausea and vomiting following surgery or chemotherapy

Side effects and problems with acupuncture:

- There isn't a great deal of evidence to prove that it works.
- Treatment of headaches is the only area where there is evidence of benefit, by NICE.
- The service user may feel dizzy, faint or ever expression a temporary worse

References and website and:

https://www.19 uk, prairions/Acupuncture/

https://www.cinenet.com/acupuncture/article.htm#acupuncture_facts

https://www.oupa.co.uk/health-information/complementary-therapies/acupuncture

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Activity 22 - Complementary therapi

Advantages and disadvantages of aromatherapy

Aromatherapy is a well-known complementary therapy that uses essential oils obtained from plants. It's thought to work by stimulating the alfactory system, the part of the brain concerned with the sense of smooth, and any of the claims for aromatherapy have not been backed up by research.

Essential oils have been line mod, and because the essential oils are often applied to out as ige, it's thought the massage itself helps the individual to The oils can be inhaled or added to bath water but should not be swall or applied to the skin undiluted.

The essential oil is added in tiny drops to a larger volume of oil. This 'carrier' oil is always a plant-based oil, such as almond, which is easily absorbed by the skin through massage. The oils may be used by the individual themselves or a qualified aromatherapist.

Side effects

Aromatherapy may cause side effects in some people. These can include:

- nausea
- headache
- allergic reaction, such as a rash
- sunburn: some oils, such as citrus oils, react with ultraviolet light, causing the ski
- some essential oils may reduce or strengthen the off the pf conventional met or aromatherapist should be taken

Aromatherapy and cancer

Some people with care and the search as a romatherapy. Some of the benefits they remains a search as a

- anxiet: 19 es. I hand stress
- self-heil
- pain
- tiredness and insomnia
- reducing inflammation, as in arthritis
- nausea after surgery
- preventing or reducing infection
- supporting treatment for cancer

References and websites used:

https://www.bupa.co.uk/health-information/complementary-therapies/aromatherapy https://www.cancerresearchuk.org/about-cancer/cancer-in-general/treatment/completherapies/individual-therapies/aromatherapy



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Activity 22 - Complementary therapi

Advantages and disadvantages

Read the page on complementary therapies (either aromatherapy or acupuncture on the advantages and disadvantages of the therapy and write them into the tab

Then decide how suitable you would consider the the approach of the mformation you may want before using acupuncture or aromatic formation with the mformation of the suitable formation with the suit

When your taking is 🦿 🕒 For 10 minutes are up, you should either:

discus: deas with your whole group or

Advantages

get toge with a pair who focused on the other therapy and compare no

I focused on:

729 Reduced to the second seco	
How suitable would you consider acupuncture/aroma	therapy to be for an indiv
What other information might you want to knc 🚜 औ	deciding to use acup
The state of the s	y acciding to use deup

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Go on to another sheet of paper if you need to.

Activity 23 - Advice on lifestyle changes

Teacher notes

	Plenary Activity: Spider diagrams
Aim of the activity	To give students an opportunity to make sually accessible no in their own studies.
	Students can work inclinion by airs. Students should reason
Teacher's instructions	then have 10 miles answer the questions on the note page
719	េ្ស ្រាម's up, go through the answers.

Answers Edwards

Question	Answer
Cost of smoking to the NHS	 More than £5.7 billion every year. Cardiovascular disease as a result of smoking contains and the second seco
Sources of support and advice	 Almost 1 in 5 deaths are due to a smoking-relation of the Charity websites, e.g. British Heart Foundation of the NHS website. GPs and practice nurses in local GP surgeries. High-street chemists usually have a pharmacist quitting smoking. Complementary therapists.
How does smoking cause health inequalities?	 Hypnotherapy has been used by some individual According to NHS England, moking is the single health inequalities. The contractes and tobacco forms a high and the contractes are to be according to the contracted and the contracted are to be according to the contracted are
How does Smoking help people quit.	 It is available throughout the UK and free at the Advisers work with individuals and groups. It helps identify the life circumstances that makes smoking, such as stress and family worries. They can give support with changing patterns of It can meet the needs of different groups as it is localities. It can give information about medicines such as It can give the medicines out or provide a pressor A national helpline is available as well as online



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Activity 23 -Advice on lifestyle change

Spider diagrams

Giving up smoking

It's been estimated that treating the effects of smoking costs the NHS:

- more than £5.7 billion every year
- cardiovascular disease as a result of sm ling of the £205.8 million every year
- almost 1 in 5 deaths is due to ____ related disorder

The need to get a greated disorder will experience the impact throughout all asset their life. According to NHS England, smoking is the single biggest preventable caucost of cigarettes and tobacco forms a higher proportion of spending among poor to damage to their health but also contributing to trapping people in poverty. No who smokes should be advised to quit, unless there are exceptional circumstance.

Support services

Charity websites, such as British Heart Foundation and Cancer Research UK, have of quitting smoking and advice. The NHS has several sections on its websites offer GPs and practice nurses in local GP surgeries are able to give advice and support have a pharmacist who is able to give advice about quitting smoking. Complement offer support, and hypnotherapy has been used by some individuals.

Stop Smoking Services

The NHS has developed Stop Smoking Services, which are ing a valuable contamong poorer groups of the population.

Research by NHS England has shown:

- If somebody quits smoking sed in they can expect to live 10 years longer.
- If somebody quits to the large of the large

Stop Smoking ces are available throughout the UK and are free at the point services available. Stop Smoking advisers will work with individuals and groups to circumstances that are making it hard for them to quit smoking, such as stress are support with changing patterns of behaviour, making it easier for the smoker to why they smoke. Advisers can meet the needs of different groups because they're localities. For example, young smokers of Afro-Caribbean culture may have different groups in Wales.

Advisers can give information about medicines such as nicotine replacement the quitting; they can also give the medicines out or provide a prescription, which is over the counter.

There is a national helpline available as well as online, with ormation, support individual can go for further support.

References and websites used.

https://www.cancerrisco.ic.ki...g/about-cancer/causes-of-cancer/smoking-and-cancer

https://www.go.wkefree/why-quit/smoking-health-problems

https://www.k/smokefree/why-quit/smoking-health-problems

https://quitnow.smokefree.nhs.uk/

http://www.heart.org/HEARTORG/HealthyLiving/QuitSmoking/YourNon-SmokingLife/\quit_UCM_324053_Article.jsp#.W1wJEvZFyP8

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Activity 23 - Advice on lifestyle change

Spider diagrams

Read the article on giving up smoking and create spider diagrams to answer the page if you need to.

Cardiovascular disease as a result of smoking costs £205.8 million every year.

he WHS more than 65.7 billion every year.

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> Cost of smoking to the NHS

How does smoking cause health inequalities?

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Activity 24 - Professional carers

Teacher notes

	Starter Activity: Keyword paragraph
Aim of the activity	To give students an opportunity to refresh heir knowledge aborders by writing a summary paragraph using the vocabulary for
Teacher's instructi	Individually or in pairs in the should write a paragraph to a 'What is mean will be an 'professional healthcare worker' and account with their summary paragraph their answers.

Answers

Example paragraph:

Professional healthcare workers have undergone training and have achieved a professional include doctors, nurses, physiotherapists and care assistants; some professional healthcare workers receive a salary for the work to national organisation, such as the Nursing and Midwifery Council (NMC), as well professional code of conduct.

Accept other suitable paragraphs with all keywords used.





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Activity 24 - Professional carers

Keyword paragraph

Use the keywords to answer the following question.

What is meant by the term 'professional healthcare in erand how are they

Word:	s to uso,		
79.	: countable	physiotherapist	
Education	care assistants	practitioners	
	code of conduct	professional	
	doctors	national organisation	
	healthcare	NMC	



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Activity 25 - Informal carers

Teacher notes

	Plenary Activity: Case study (email)
Aim of the activity	To give students an opportunity to aprimeir knowledge and informal carers to a case study are far as
Teacher's instructions	Divide students into the part of 2-4. Give students won the store and the case study and then 10 The students into the part of 2-4. The

Possible answers

Role of an informal carer:

- shopping for Florence
- carrying out everyday chores, such as laundry, washing-up and housework
- preparing food and drinks
- helping Florence with personal hygiene
- helping Florence get dressed
- helping Florence carry out exercises that the physiotherapist has set for her
- keeping Florence company, chatting and listening
- taking Florence out when she feels strong enough
- helping Florence take her prescribed medication





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Activity 25 - Informal carers

Case study (email)

Melanie is 25 years old and lives next door to her elderly neighbour, Florence, aged 88. She knows that Florence has been in hospital following a fall on an icy pavement, which led to her fracturing the neck of her femur and needing a hip replacement. Florence has no family and will have to rely on neighbours and friends to help care for her while she regains her health and confidence once she returns home.

Melanie is one of a group of neighbour who ave agreed to help support Florence, but shot as no specience of care and is concerned about what a solution of the community nursing team about who should be doing for Florence.



Imagine you are the district nurse responding to Melanie's concern about what she doing to support Florence.

Read the case study above and write an email to Melanie in reply.

To:	Melanie@unrealemail.com
From:	
Subject:	

Dear Melanie,



Go on to a second page if you need to.

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Activity 26 - Private and voluntary carers

Teacher notes

	Plenary Activity: 'How much do you know?'
Aim of the	To give students an opportunity to check their own knowledge
activity	gaps.
	Get the students into hailand out one student resource
	Students showard in the photograph and then write down as
	abou್ ಸ್ಪ್ರ್ ್ಲ್ರ್ ಎನೆ private care agencies.
79	
Teache	When ready, start the timer (for three minutes) to initiate the a
instructions	1
	When time's up, students need to:
	either look at other students' responses and add in any addition
	OR this could be done as a whole-class activity, with response
	that students can write them down.
	The whole activity should take a maximum of 15 minutes.

Answers

Age UK		Private
Nationwide support network and local support	•	Regulated by Car
Advice line	•	Staff will have cle
Mobility aids		Provide trained a
Exercise classes	•	Out-of-hours em
Social activities	•	Will want to mee
Day care centres		carer to understa
Dementia support	•	Will take care of @
• Can prace t きょうしるS-checked staff in		and national insu
some 💯 🤍	•	Can't always gua
Footcasservices in some areas	•	Expensive
Handyperson to carry out minor repairs in		
some areas		
Home help in some areas		
Care assistants for personal care in some areas		

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Activity 26 - Private and voluntary care

'How much do you know?'



This photo shows group, which is less once a month and active and engage

Study the photograph above.

Your teacher will give you three minutes in which to write down as much informal Age UK and private care agencies. You could think about their role, how much the people to find and use their services.

Write your responses in the table below.

Age UK	Privat
123	
Education	
The state of the s	
	1
	Privat

Now share y information with the rest of your class. Add in any additional information that you haven't included. Go on to a second page if needed. INSPECTION COPY



Teacher notes

	Plenary Activity: Advantages and disadvantage
Aim of the activity	To give students an opportunity to devel their skills in analyadvantages and disadvantages of actions setting.
Teacher 79 instructi	Hand worksheets to e for r. Stude Land worksheets own home' or 'residential home' as a care to said the attached sheet, in the care chosen setting (eight minutes). When ready, review students' responses. Students can share the or discuss their ideas as a whole group.

Possible answers

Own home: advantages	Own home: disadvantages	
Cheaper than	Have to find formal and]
hospital or	informal care staff to	
residential care	come in	l
Less infection risk	Care is expensive	۱
79		ļ
Continuity 100 on	Bills, such as food, water,	
can stay in	heating, council tax, house	
own familiar	and garden maintenance,	İ
surroundings with their own	are all expensive	
possessions		
Supports person's	The person may find	l
sense of identity	themselves alone for long	
	periods and become very	
	lonely and isolated	
Formal and informal	Person may lack activities	
carers can come in	and become bored and	
	disengaged	
79 Edverter		

Residential he advantage	
Trained, profession	nal ca
Warm, dry and cle	an
surroundings	
Plenty of social co	ntact
reducing lonelines	s and
isolation	
Activities available	, suc
painting and outin	
less chance to dise	engaç
from society	
Support with daily	task
readily available, s	
bət' ing and dressi	
ែ រ០រ ៗ with food ar	
Taundry service pro	ovide

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Advantages and disadvantages

Own home

People usually like to stay in their own homes for as long as possible and there are forms of support available to help them. Usually, these was all ut less expensive to somebody in residential care or hospital, for example

Because there aren't so many people and ur a time risk from infection is less in the user's home, providing begins are followed. Another benefit is that the may help them as a with the people and possessions that are important somebody their sense of identity, which may help them maintain independency, such a gardening or walking their dog. All of these are important to a servisocial health.

Care assistants can come in as often as needed or stay there for 24 hours, depending they can be provided by the local council, a private care agency, a charity or be expected and district nurses can make home visits, which can include regular checks an carers, such as friends, family and neighbours may be available to give support so in their own home.

Physiotherapists, occupational therapists and chiropodists are all examples of healthome visits. They can be funded by the NHS or paid for privately.

Residential homes

At times, it becomes impossible for somebody to stay thin two home. This can because their health deteriorates to the point where the can no longer look after themselves or their informal carer is to have ble to care for them. Long-term, residential care then becomes the sets of the care for them. Long-term, residential care then becomes the sets of the care for them. Long-term, residential care then becomes the sets of the care for them. Long-term, residential care then becomes the sets of the care for them. Long-term, residential care then becomes the sets of the care for them. Long-term, residential care then becomes the care for them. Long-term, residential care then becomes the care for them. Long-term, residential care then becomes the care for them. Long-term, residential care then becomes the care for them. Long-term, residential care then becomes the care for them. Long-term, residential care then becomes the care for them.

Residential care is different from nursing care. If an individual needs residential can help with personal care, such as washing, dressing and going to the toilet. They restays, as well, to give their usual informal carers a break, known as respite care. Needical condition or illness, who may need specialist care and support, such as so disease.

Most residential homes will offer en-suite accommodation, with meals taken in the have larger rooms for couples to stay together. Some allow residents to bring the homes are regulated by the Care Quality Commission (CQC) and previous reports CQC website and on the residential home website. Their staff will be trained and such as DBS checks.

Many residential homes have regular visits from professionals such as district nuralso provide a range of activities, including an hair aerobics, outings and painting



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Advantages and disadvantages of own home as a care setting

Read the article on the service user's own home as a care setting. Decide what the and disadvantages may be and write your ideas into the table below. Two ideas been written in for you.

After 10 minutes, or when your teacher tells viu my sup, either:

- Join up with a pair who have for each other or
- Share verified by the whole group.

Own home: advantages	Own hon
Feel safe and secure in own surroundings, with own possessions.	Will have to wait for a
pussessions.	
7.3	
Education	
79 Page standard	<i>**</i>

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Advantages and disadvantages of residential home as a care setting. Read the article on residential homes as care settings. Decide what the advantage and disadvantages may be and write your ideas into the table below. Two ideas already been written in for you.

After 10 minutes, or when your teacher tells viu my sup, either:

- Join up with a pair who have feet and share your ideas with each other or
- Share voice least the whole group.

dential home: advantages	Residential ho
Heating, food, hot water and laundry service	Can't bring own furnit
provided.	belongings, so could mi
	from being in a familia
	belongings.
	P. »
79. N. S. P. E. C. S. P.	
Education	
	/
79	
Education	

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Teacher notes

	Plenary Activity: 'Pass the hat'
Aim of the activity	To give students an opportunity to test the hat for a very limited perior
Teacher's instructions	Photocopy the topic rank a rable, to make it easier to check the quert and easier for cutting, especially if the teacher is following Cut them up. Fold the questions up, then place in the hat or witto use. There are two ways of carrying out this activity: Option A 1. Get all the students to sit on one side of the room. 2. One student draws a question out of the hat and on the wiseconds about the topic (or until the question is complete). 3. When 30 seconds are up, call out 'Stop'. 4. Read out the answer and decide if the student has answer have, they must go and sit on the other side of the room. 5. Continue until all the students are sitting on the other side.
79.	Alternatively, you could divide the striction into groups, provious student in the group and the answer face down on the table. If question master and a pointable for deciding if the student in this case of rule to smooth

Additional resources: stopwatch

Questions and answers for teacher use

	Question			Answe
1.	Give three examples of services	1.	An	y three from:
	available at GP surgeries and		•	GP
	health centres.		•	District nurses
			•	Midwives
			•	Screening, such as for cervic
			•	Health visitors
			•	P'., :
			•	್ರೈಪ್ರೀ care and support
	-77	ر ر 1	ی	Counselling
		ľ	•	Minor surgery, such as vased
			•	Pharmacy
	79		•	Regular health checks on lor
	Education			asthma
2.	How are GP surgeries and	2.	•	Through Care Quality Comm
	health centres regulated?			-

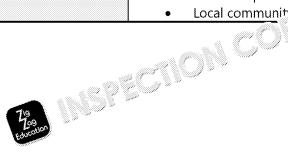
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	Question		Answer
3.	How much do service users	3.	Services are free at the point of use
	have to pay at GP surgeries and health centres?		Prescriptions have to be paid for
4.	Give three examples of services available through a hospital.	4.	 Any three from: Accident and Emergency services Family planning services Sexual health services Physical and mental health disorders Treatment for female genital mutilation domestic or service violence Matern of any services, such as paediatrics Apatient wards
			Outpatient clinics
5.	How are hospi	5.	 Diagnostic procedures, such as ultraso Through Care Quality Commission (CQ)
6.	How much do service users have to pay to use hospital services?	6.	 Services are free at the point of use Prescriptions have to be paid for If the service user is from outside the U
			to pay
7.	Give two examples of health professionals who may be involved in rehabilitation.	7.	Any two from: Physiotherapists Occupational therapists Counsellors Psychologists Doctors Nurses
8.	Give one example of a specialist rehabilitation centre.	8.	Any one from: Spinal injury unit Limb fitting colore Local foreign Learning disability centre Cardiac/stroke rehabilitation unit Mental health services
9.	Give one exam a non- specialist rehabilitation centre that will have trained staff to hand.	9.	Any one from: Local health centre Gym Community centre Sports centre School sports Online tools
10.	Give one example of rehabilitation that can include structured peer support.	10.	



Pass the hat

Questions and answers - to be cut up

- Give three examples of services available r , 3 's a genes and health cent 1.
- How are GP surgeries and '_a * _ ^ tres regulated? 2.
- users have to pay at GP surgeries and health centres 3.
- examples of services available through a hospital. 4.
- 5. How are hospitals regulated?
- 6. How much do service users have to pay to use hospital services?
- 7. Give two examples of health professionals who may be involved in rehab
- 8. Give one example of a specialist rehabilitation centre.
- 9. Give one example of a non-specialist rehabilitation centre that will have
- Give one example of rehabilitation that can include structured peer supp *10.*
- Any three from: 1.
 - GP
 - Midwives
 - Health visitor

 - urgery, such as vasectomies

 - Regular health checks on long-term disorders, such as asthma
- 2. Through Care Quality Commission (CQC)
- 3. Services are free at the point of use
 - Prescriptions have to be paid for
- 4. Any three from:
 - Accident and Emergency services
 - Family planning services
 - Sexual health services
 - Physical and mental health disorders
 - Treatment for female genital mutilation (FGM), torture, domestic or so
 - Maternity services
 - Specialist services, such as paediatrics
 - Inpatient wards
 - Outpatient clinics
 - Diagnostic n s in units, such as ultrasound scans
- n Care Quality Commission (CQC) 5.
- 6. Services are free at the point of use
 - Prescriptions have to be paid for
 - If the service user is from outside the UK, they may have to pay

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District nurs

Screening,

Physiother Counsellin

Pharmacy

7. Any two from:

- Physiotherapists
- Counsellors
- Doctors

- Occupational therapists
- Psychologists
- Nurses

8. Any one from:

- Spinal injury unit
- Local hospital
- Learning disability centre
- Mental health services

- Limb fitting centre
- Health centre
- Cardiac/stroke rehabilitation

9. Any one from:

- Local health centre
- Community centre
- School sports

- Sports centre
- Online tools

10. Any one from:

- Walking g
- Dance club
- Inclusive sports or stroke club
- Local community leisure facilities, such as swimming pool





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Activity 29 - Assessment of care needs

Teacher notes

	Plenary Activity: case study (Letter)
Aim of the	To give students an opportunity to apply: eir knowledge and
activity	scenario.
	Students work individation racing the case study (two minute
Teacher's	letter respons ್ಷಡ್ರಾ ಮಿಗೆ ಮೇರ್ಗಳು.
instructions	answers with another group or disc
og control	wnole group.

Answers

Type of care	Explanation
Drimani	Services that are the first point of contact for most people v
Primary	includes GPs, dentists, nurse practitioners and pharmacists.
Cocondoni	Hospital and community care that includes treatment for a
Secondary	condition. It includes emergency treatment, such as for a se
	Care that is specialised, referred either by a primary or seco
Tertiary	In this case study, this means Harry being referred to the dia
	for his heart problems.





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Activity 29 - Assessment of care nee

Case study (letter)

Harry is a 62-year-old builder. When he carries heavy loads across the building site, he experiences chest pain so has made an another with his GP.

Before his appointment, he collors with overe chest pain that travels up the left side of his neck with its arm. His colleague takes him to the Accides and when accides to admit him to the Cardiac unit.

While Harry is being treated for angina and investigated for coronary heart disest that his blood sugar levels are abnormally high and decide to refer him to the disagnose type 2 diabetes.

Harry's wife, Cynthia, is visiting him in hospital and overhears a conversation be staff involving the words 'primary', 'secondary' and 'tertiary'. She thinks the staterminal cancer and is understandably extremely anxious and upset. However, time, she goes home and then emails the ward about what she heard.

Imagine you are the nurse looking after Harry. You need to explain to Cynthia that heard was not a discussion about Harry having cancer, but a referral to the difference types of care in the NHS. You have decided the best way this is in a letter.

Write your letter in the box below. The constant of the letter has been with a second page if you negotiate.



Dear Mrs Evans,

I am so sorry that you were not more fully informed about the steps the hospital is care he needs. I am also sorry that you overheard the conversation, which should because of that you have misunderstood what was being said.

What we actually meant by the terms 'primary', 'secondary' and 'tertiary' is as f



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Activity 30 - Reviewing care needs

Teacher notes

	Plenary Activity: case study (home visit)
Aim of the activity	To give students an opportunity to apply eir knowledge and scenario.
Teacher's instructions	Students can work in the case study (two minute that they can work in Edward on the home visit (eight minute should then compare answers with another group or whole group.

Possible answers

There are a number of factors that the GP, nurses and hospital consultant are likely reviewing Edward and his changing care needs.

For example:

- the change in Edward's Parkinson's disease and assessing whether he's devel
- Betty's own health and whether she can continue to care for her husband
- assessing whether Edward needs more care within the home, such as care as
- assessing whether Edward actually needs long-term residential care
- the couple's financial situation, as this may affect any care services they want financial benefits from social services
- the type of housing and locality in which Edward (in eth) live, as this may at there might be nearby
- how much support they have from (e) 25 and their family





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Activity 30 - Reviewing care needs

Case study (home visit)

Edward is 79 years old and has Parkinson's disease. His wife, Betty, is his main carer and has been able to care for Edward very well over the last five years since he was diagrage.

However, over the last few months of the noticed that Edward is becoming more and a beginning to feel she can no longer local feel with the GP, the district was and the hospital consultant.

The couple live in a rural village, 30 miles from the nearest hospital, and their three children live and work in another part of the country.



Read the case study above.

Imagine you are the community nurse responsible for delivering and coordinating Edward's care. You know his needs are changing and you have to prepare a report the multidisciplinary team so that his care can be altered in response. The team includes other nursing staff, the GP, the physiotherapist, the occupational therapiand the hospital consultant.

To do this, you have arranged a home visit so that you condiscuss Edward's needs with him and his wife, Betty.

In the table below, mak a first issues that you will want to cover. Two issues on to a first plant is not need to.

Issues

- 1. Does Edward need more help with daily tasks, such as getting dressed and
- Does Betty have any health issues? If so, how are they affecting her ability



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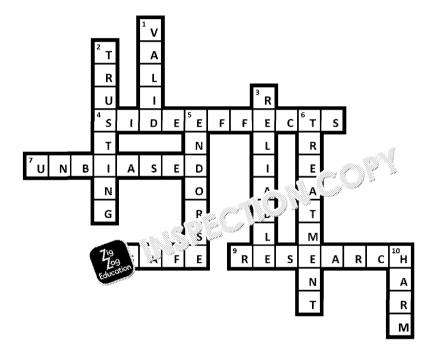


Activity 31 - Validity and reliability of sources information on possible treatments

Teacher notes

	Starter Activity: article and crossword
Aim of the	To introduce students to vocal and resconded with establishing
activity	sources of informatic reasoning treatments.
_	Students no fot is as pairs or individually. They should read
Teacher's instruct	and the crossword (approximately 10 minutes).
Education	When ready, go through the answers or get students to peer n

Answers



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Activity 31 - Validity and reliability of sources of information

Information and research on possible treatments

Part of the trusting relationship between service users and health care providers on the understanding that the treatments prescribed are as safe and reliable as the be. If a doctor or nurse prescribes a medicine, we expect the to be aware of the side effects, when the medicine should not be used a prescribe the one that suited to meet the individual's needs. In 1853 Tic according to the sick no harm, and in the twenty century that principle can be a considered to every aspect of healthcare.

The purpos Parch includes:

- establis more effective treatments and care
- ensuring that current treatments and care are as safe as they could be

In 2017–2018, the Medical Research Council (MRC) spent £814.1 million on fundamedical research, much of it taking place through universities. This was an increas 2017 and the work carried out in these establishments is expected to be valid and example, be replicated by different teams in different places and still achieve single their results, both service providers and service users trust both the information

Not all sources of information, however, are reliable and valid. Some articles in nobe promoting a particular product and are presenting it in a way that appears unstatistics, customer quotations and sometimes celebrities who endorse the product thinking about trying one of these products, it's sensible to be earch it first, either to a health practitioner such as a GP or practice not approduct may not be as may even work against some of the medicate of the individual is already taking user could end up spending mone to be easily product that makes little difference. At worst, the product was a them harm.

Many chari to apport specific disorders publish research on different treater are easily actions by the service user and are written so that anyone, not just a Diabetes UK and Arthritis Research UK are just two examples. The NHS and UK go reliable sources of information.

References and websites used:

https://mrc.ukri.org/about/what-we-do/spending-accountability/facts/



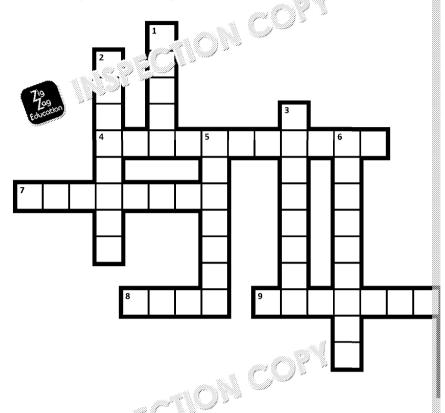
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Activity 31 - Validity and reliability of sources of information

Article and crossword

Read the article about the validity and reliability of sources of information on po treatments. Then answer the clues by reading the question and writing your answer the boxes that correspond with the question number and direction.



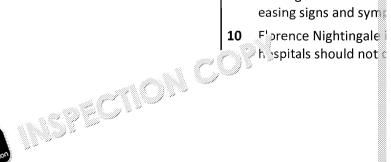
Across

- When a medicine or a procedure causes unlooked-for benefits or problems (4,7)
- 7 Reporting both the positive and the negative aspects of a product's performance and effects (8)
- 8 What we expect our treatments to be (4)
- 9 This is carried out to ensure a treatment or procedure is safe (8)

Down

- Claims about a treat be correct (5)
- Nature of the relation and care provider (8)
- 3 Reporting we know
- 5 When a celebrity or good a treatment is
- 6 Word given to a met easing signs and syn







Activity 32 - Cycle of planning

Teacher notes

	Starter Activity: Black and green mind map		
Aim of the activity	To give students an opportunity to check their own knowledge with its definition.		
Teacher's instructions	Hand a green pens, one for each group. Hand be a green pens, one for each group. Go through the mind map with the whole class. Then tell stude mind map face down. Using the black pen, students must represent mind map in the time that you choose to give them, such as five of each text box have been left, to give a clue about the content for a starter. The whole activity should take a maximum of 15 minutes. Students turn the information mind map over and compare who original. They should add further information in their own versilf needed, repeat the exercise, using a second blank mind map green additions second time around. An A3 copy of the mind map is previous in Appendix 3.		





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Cycle of planning

The most recent reorganisation of the NHS came into force into force in 12013. Part of the restructuring in an attempt to identify and then meet people's health and including needs on a local basis.

Clinical Commissioning Groups and Jack Jacof doctors, nurses and other in agessionals. Aim to meet local health needs by buying se These providers may be NHS, private or volume

Health and wellbeing boards

Purpose is to ensure services work together **Local people,** including elected councillors a

Local needs are





The impact of

the services on local health needs is evaluated





Local services are commissioned and put into practice. The needs of one area are likely to be different to another.

Services

are put into practice.





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Aftercare

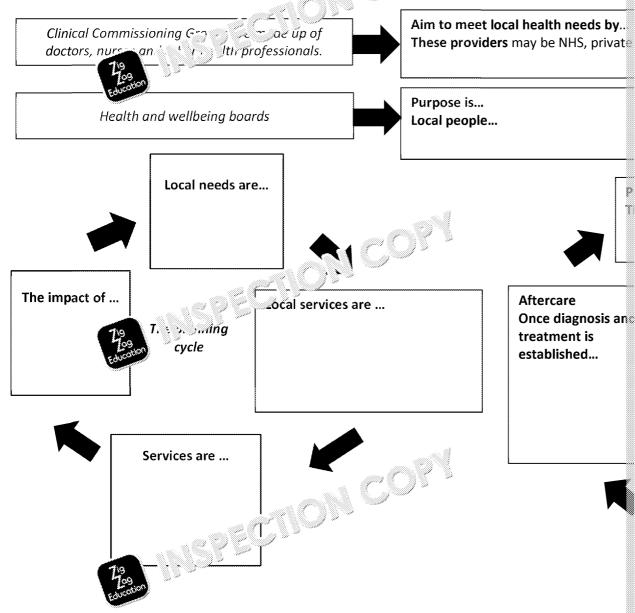
Once diagnosis and treatment is establish some service users will referred back to their for continuing care. They may visit the hosp consultant every few months but day-to-da care will be carried ou through their GP.





Cycle of planning

The most recent reorganisation of the NHS came into force and 12013. Part of the restructuring in an attempt to identify and then meet people's health and the people an





Activity 33 - Individual needs, including cult gender, age, religion and disability

Teacher notes

Aim of the To give students an opposit it + apply their know	nd meet
activity 10 give students an of the apply their knot	wledge and
Put students five minutes to read the background communities; then a further two minutes to read the spend 5–8 minutes listing ways to meet her individual You can then come back together or get students to answers below. Extension: Four more case studies are given on the and disability. Read the attached case studies and a	ne case study ual needs. to check the

Possible answers to gender case study

Action	How this will support
Ensure Kizzy knows she can meet with a female GP and nurse.	Meets her cultural preference accepted safe and respected
Ensure she knows she can undress in private and have a blanket to cover her up, should an intimate or abdominal examination. (ec.,)y.	Name cultural preference pred, safe and respected
Accept her registration at ") ary without ID or proof of address	NHS England states these ar
Accept she has a size on bringing her children and possible portive women, such as her mother and aunts.	Meets her cultural preference accepted, safe and respected
Be tactful with leaflets, etc. as Kizzy may not be skilled at reading or writing.	Will ensure Kizzy has all the help establish a positive, sup
If she admits to being the victim of domestic violence, suggest a safety plan and explain this doesn't mean she necessarily has to leave her husband permanently.	Nobody should have to tole violence, regardless of their
Suggest she has a spare key cut for the car and some money hidden away in case of emergencies. This may be her only means of escape.	May provide a way that enal own and her children's safet her culture.
Collect together any important documents, such as her children's red health record book; 'l' birth certificates, etc.	she can get away and a safe place and have proof these are needed.
Ask her to think of som A A A She could turn to for	People from gypsy traveller of reluctant to call the police by member for help if needed. Where she is and her decision
Provide a 24-hour telephone number for a domestic violence helpline.	For use so that Kizzy has son her children's safety.

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Possible answers for extension case studies

Age: Arthur

Answer:

- Refer to physiotherapist and occupational therapist for home visits, if Arthur
- Ensure Arthur has the medication he needs for pain relief.
- Encourage Arthur to attend the hospital consultant, to sagif he could have join
- Encourage Arthur and his family to apply for ben in such as carer's allowand

Disability: Duke

Answer:

- Involve to a first surve's parents in the steps the school is taking to give Du
- Provide als they could use at home, to support his education within sc
- Remind them of the value of listening to him read a little bit every day.
- Remember that Duke's parents themselves may have a low literacy level, so a material that's too complex.
- Be willing and available to talk through issues on a regular basis.

Culture: Naomi and Cindy

Answer:

- Ensure the couple have access to support material, which will include charities
 people in the LGBT community.
- Be prepared to listen and offer non-judgemental support.
- Remind the couple of their rights.
- Respect their decisions.

Religion: Penny

Answer:

- Ensure Penny has the containing to speak to the priest when in hospital.
- Respect Pany' needs and wants.
- See if it is steered arrange to do a Mass or blessing at Penny's bedside for

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Activity 33 - Individual needs, including culture, gender, ag

Background information on gypsy and traveller communities

There are estimated to be 300,000 gypsies and travellers in the UK¹. Gypsies and Irish travellers are recognised as ethnic minorities and communities have their own language and dialects

'Mochadi' laws are customs around of the saind modesty. For example, women's washed to would not be displayed on the washing line by 'sidd's each that T-shirt or a towel. They will have one bowl for any and another for washing the body. Both sexes may could be sexes it immodest to undress in front of anyone else.



Family support is extremely important. Those with learning disabilities, additional looked after by their family members, who are very keen to do their best for the benefits tends to be poor and many families and individuals miss out on money to is a further barrier – it's estimated that 45% of the gypsy traveller communities had access to mainstream services extremely difficult.

There are specific health and social care concerns. Women are estimated to live less than people in settled communities². They are three times more likely to expelikely to have depression. 39% are likely to have a long-term disorder, compared women have a higher rate of miscarriage and stillbirth and there's a higher rate pregnancy and shortly after childbirth. There's also a higher rate of neonatal deals

Gypsy and traveller people are likely to only want to a GP of their own secarers, they may find it hard to attend a Dinament and have to bring their health, despite the figures quoter to be order kept within the family and not people have a deeply hold to of their address or ID, so could find it difficult to regist NHS Englan that an individual doesn't have to provide an address or ID in

Men and women often follow gender-specific roles, the man being the 'family heart.' Interference between spouses is taboo and a woman leaving her makes to speak out¹.

Individuals who are lesbian, gay, bisexual or transgender (LGBT) may find it very sexuality^{4,5}. There is an increasing amount of information available online for people able to access it.

Christianity is the dominant religion, with many Irish travellers being practising Ro Evangelical movement is also gaining followers among gyps aveller communities

Other sources

http://www.gypsy-traveller.org/wp-content/uploads/gypsies_travellers.pdf https://www.gypsy-traveller.org/wp-content/uploads/2018/05/Research-on-learning-discommunities-May-2018.pdf INSPECTION COPY



¹ http://www.gypsy-traveller.org/wp-contantinal adsyfile/10_06_09%20DV%20leafle

https://travellermovement.org///ab L/prosy-roma-traveller-history-and-culture

³ https://www.fairhealt' & k faming/gypsytraveller/

⁴ https://transport.org.uk/advocacy-and-support-publications?download=5:00 and-trave 100 are people-and-their-families

⁵ https://travelermovement.org.uk/advocacy-support/lgbt

Activity 33 - Individual needs, including culture, gender, ag

Case study and meet

Kizzy is 25 years old and has been discharged home from hospital following a miscarriage at 14 weeks gestation. She was tited as an emergency following a heavy bleed and cramps Jon hanhome in a caravan at the gypsy traveller site 10 mie siue the town.

Kizzy is married and har william at home, aged five and three. While ta. அள்ளீர்her and aunts cared for the children. she was in

While in hospital, the medical and nursing staff noticed Kizzy had several bruises of different ages on her body and were suspicious that her miscarriage was a result of domestic violence. However, Kizzy insisted on being promised to register at the local GP surgery as soon as she's able to do so.

Read the case study above and the attached information page.

Imagine you are a care assistant at the GP surgery and have been asked to meet comes to the surgery and help her register. Before you meet her, you want to make in which you could meet her individual needs and support her.

Action	How this will support
	1081
719 74-9 Februaries	
72.	•



CION



Activity 33 - Individual needs including culture, gender, age

Extension activity: case studies of people living in gypsy travelle communities

Read the case studies below and answer the question attached to each one. Use information page to help you with your answers.

Age

Arthur is 72 years old. He lives of a large arayan, with his daughter and her far Over the last four years the progressively disabled with osteoarthritis now finding the second of his trailer almost impossible. His daughter and but they a large to do much more for him.

Question: Imagine you are a community nurse attached to the local GP surge Arthur and his family?

Answer:

Disability

Duke, aged iversions parents and younger siblings in a caravan, with both nearby. He was a learning disability.

Question: Imagine you are a teaching assistant in Duke's school. How could you meet his learning needs?

Answer:

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Zig Zag Education



Culture

Naomi and Cindy are a lesbian couple who live on the same settled gypsy trave separate trailers but want to get married and live together, preferably on the same families nearby.

Question: Imagine you are a community nurse attached to the local GP surge Naomi and Cindy?

Answer:



Religion

Penny, aged 76, slipped on the steps of her caravan in icy weather and fracture meant she had to be admitted to hospital and have a hip replacement. Penny i and is very anxious about not being able to attend Mass on Sundays.

Question: Imagine you are a nurse on the warrar asponsible for Penny's continuous religious needs are met?

Answer:



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Activity 34 - The purpose and aim of care for outcomes to be achieved and actions to be to

Teacher notes

	Plenary Activity: Case Judy and action
Aim of the activity	To give students an opportait + apply their knowledge and
Teacher 19	Put student for saps of 2–4. Ask them to read the case student for the table to identify the aim or purpose of care, the support worker.
	When ready, discuss student responses using the possible answ

Possible answers

Purpose/aim of care	Outcomes	Actions to be
Financial independence	Managing his Personal Independence Budget (PIB)	Patrick's parents and his support worke able to keep track of his spending. He moving out.
Independence in activities of daily living	Help with daily living: shopping, cooking, cleaning, laundry, using public transport, paying bills, etc.	Patrick's support worker and parents withese. It's important he learns how to dout.
Enable Patrick to take part in continuing 19 professional salara development	Help at colly when Policy is an food hy grane course	Patrick, his parents, his support worker ensuring the college knows his needs i
Maintain independence through employment	For Patrick and his employer to feel he's able to carry out his duties at work and be a valued team member	Patrick's support worker could visit the by talking to Patrick, his employers and arising should be dealt with as quickly remain employed.
Live independently of family	Finding a suitable place for Patrick to live	Patrick's parents and his support worker find somewhere suitable to live and he process, such as references, deposit and

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Activity 34 - The purpose and aim of care for an individual, and actions to be taken

Case study and action

Patrick is 19 years old and has a moderate learning as fits. At the moment, he lives at home with his parents but is keen to a very sown home and to have a jos othat he can achieve independent and the can offered a job working in a local café as a kitchen assistant is a winn preparing meals and washing up. His future employed her was a for Patrick to do his basic food hygiene course at the local and the l

Patrick knows that he finds some aspects of daily life challenging and that he would need support in his independent living, especially with shopping, cooking clean. While he's excited at the prospect of starting his job, he's also quite anxiet manage in the workplace.

Patrick already receives a Personal Independence Budget and he and his parents a further assessment once he's moved out, to ensure he has enough benefit incomport workers, housing and so on.

Read the case study above. Imagine you are Patrick's support worker. You want is support Patrick will need to enable him to fulfil his ambition, so that you can disciparents.

Use the table below to help you identify the aim representation of care, the outcome needed. One row has already been started to out on to a second page if you

Purpose/aim of care	Outcomes	Act
Financial 199 independe	Managing his Personal Independence Budget (PIB)	Patrick's parents and him so that he's able He should learn to do
Independence in activities of daily living		
Enable Patrick to take part in continuing professional development		
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Activity 35 - Overcoming potential barriers

Teacher notes

	Plenary Activity: Case study and email
Aim of the activity	To give students an opportunity to and
Teacher's instructions	Put students into grou —4. Sk them to read the case student then complete the case student responses using the possible answer.

Possible answers

Barrier/issue	How it could be c
Language – Weronika and her family speak very little English.	The school could provide additional supportance classroom and encourage her to speak Engine The hospital and GP surgery could provide and find a translator who can attend with
Lack of income – factory workers earn a minimum wage. Rent, living costs and transport in UK are all expensive.	The family could find a befriender from the may be willing to help out by giving them the expense of using public transport.
Geography – the hospital is a long way from where Weronika and her family are living.	The hospital could provide appointments reducing the need to have so far. The GP surgation of the asked to take on the need to the hospital.
Psychosocial – Weronike is make friend in a country very period to her own. She may be so sing to behave like them and ignore her own needs in an attempt to fit in.	Weronika's form tutor and school nurse co and explain how important it is that she moderated be encouraged and asked to suppose sweets or having fizzy drinks with her but alternative.

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Activity 35 - Overcoming potential barr

Case study and email

Weronika is 14 years old and moved to the UK from Poland two months ago. Her parents have both got jobs at a factory in a small wn, 40 miles from the main county hospital.

Weronika knows very little 5 the has already made friends with a group of girls in her year 3 the and wants to be able to take part in all the activities 12 to 12

Weronika has been ill recently, losing weight, passing out, having a constant thirst and needing to visit the toilet several times a day. Tests at her GP surgery and the hospital show that she has type 1 diabetes, so she has to learn self-care and maintenance of her diabetes.

At school, however, she finds it easier to do as her friends do and eat sweets and diabetes isn't very well controlled.

Her family have a very limited income, they don't have a car and they hadn't expected the main county hospital so often. This makes it hard for them to attend all the missed several.

Read the case study above.

Imagine you are the school nurse in Weronika's s no

You have received an email from the first diabetic nurse, who is concerned the attending her hospital apply and that when she does go, her records show worryingly high

In the box by inswer the nurse's email, explaining Weronika's situation, the are facing here in the UK and what could be done to support her. Go on to a second

To:	Hospital diabetic nurse @ unreal.com
From:	
Subject:	

Dear Nurse,
Weronika's situation...

Barriers faced by Weronika and her family ...



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Activity 36 - Professional responsibilities

Teacher notes

	Starter Activity: Keyword paragraph
Aim of the activity	To give students an opportunity to refrest their knowledge about the students are provided as the stude
Teacher's instructions	Individually or in pairs its mould write a paragraph to 'Exprofessional remotes'. CA calents 5–10 minutes to write their summary paragraph. Their answers.

Answers

Possible paragraph:

Care values form the basis of all care and professional healthcare workers have a deliver care with these in mind. Providing personalised care that gives the service empowerment as possible is central and good communication skills are essential. maintaining confidentiality and safety, treating people with respect and dignity is possible.

Accept other suitable paragraphs with all keywords used.





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Activity 36 - Professional responsibilit

Keyword paragraph

Use the keywords to answer the following.

Explain what is meant by professional responsibilities.

Wo	ords to use:	2	
	n Esques	Confidentiality	
Zoo Edward	Choice	Dignity	
	Communication	Empowerment	
	Independence	Safety	Pε
			••••
700	ion		
719			
Zoo Educat			

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Activity 37 - Advantages and disadvantages different types of treatment

Teacher notes

	Plenary Activity: case study and decide
Aim of the activity	To give students an opportunitation of their knowledge and surrounding different y_1 of treatment to a case study.
Teache To	Put students to peaps of 2 – 4. Get students to read the back read to peak and case study information about Steven (five more than students should write the advantages and disadvantages replacement, and make a final decision for Steven.
	When ready, go through and discuss student responses.

Answers

dvantage of ϵ
nsive than ol
ised to stick
l walking
the surgery,
e and the ph
of the type o

Steven should have the month of the late design ankle joint replacement as it was somebody of his and his enable him to lead an active, busy life and carry on the NHS in the long term.

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Activity 37 - Advantages and disadvantages of different

Ankle joint replacements

In recent years, joint replacement surgery has become manadvanced and ankill becoming more common. Older types are less expansion and are especially suitable likely to be very active. For an elderly person the could be very useful as it could independent in their home for military, which would save the NHS and social term.

ea out after a few years and need replacing, making them les such as the middle adulthood. Obviously, having to replace an ankle replace considerably, as well as keeping a service user out of the workplace, if they're e of pain relief medication, staff time and of an individual being in hospital occupying a bed must also be taken into account.

More advanced ankle replacements have been developed but they are considerably more expensive than the older types and it's cheaper for the hospital to insist the surgeons only use the older types.

Both types of ankle replacement carry risks of failing, especially if the individual carries out a lot of high-impact exercise, such as running. Many orthopaedic consultant advise their patients to take up lower-impact ex and in its ins, such as cycling and walking. WSES.

Ankle joint repla common but the provide long-term





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Activity 37 - Advantages and disadvantages of different

Case study and decide

Steven Cheung is a 45-year-old PE teacher at a secondary so ool and a keen sportsman. In his spare time he enjoys playing and, yeling and running and has taken part in all these activities since was a teenager.

When Steven was 23, he for said is right ankle when he tripped over during a half ward in injury healed well and one year later he was back to no half man't have any further problems.

Over the last two years, however, Steven has noticed his right ankle has been swollen, stiff and painful. He found it hard to run or play squash because of the problem and visited his GP, wondering what the problem was. It became so bad he found he was unable to work and has been off sick for a month, unable to walk very far. He is also having to rely on very strong painkillers, which are liable to damage his stomach lining and his liver if he uses them for too long.

Steven's GP referred him to an orthopaedic consultant at the hospital, who carrie

These showed Steven has developed severe osteoarthritis in his ankle. The consumankle with steroids but this has had little effect and the consultant has now said joint replacement.

The question the consultant has to consider which type of ankle replacement. one much more expensive than the first hospital is very short of money and all surgeons to choose () the ption whenever possible. However, the consumore expensive property is a has to explain why to the hospital managers.

Read the case dudy above and the information page on ankle replacements.

Weigh up the advantages and disadvantages of the more expensive type of replatine table below. The first one has been started for you.

When you have finished, you must reach a conclusion about whether you agree

Advantage of a newer design ankle joint replacement	Disadvantage of €
Less likely to fail in a few years' time	More expensive than o
73. Lavoritan	
Final decision: Steven should have	

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Activity 38 - Scheduling and timescales for achievement

Teacher notes

	Plenary Activity: Case of dy and respond
Aim of the	To give students an opportunit to arrow their knowledge and
activity	surrounding different y_1 f treatment to a case study.
	Put studence to 3 sups of 2-4. Ask them to read the case studence
Teacher's instruct	the suggestions to the issues ide
Educatio	When ready, go through and discuss student responses.

Answers

Issue	Response and possible solution
Rate of recovery	Strokes take a long time to recover from and, for some, recover lives.
	 Suzanne will probably always have a degree of paralysis in will help her get as much function back as possible and the her find ways of managing independently at home. Suzanne will have to be patient. Her GP and nurses at the sall be very willing to discuss this with Elaine and Suzanne. Perhaps the physic and OT could set small milestones for a For example, being able to walk to go ottom of the garde being able to make a fist with no could after eight months.
	• It's possible that Size impatience could be worse than and cognitive in pace of the stroke. Again, this is something
Appointr times	Suzanne and Elaine need to talk to the hospital and GP sure can be reached.
	 Perhaps appointments could be arranged for the end of the morning, so that Elaine wouldn't have to take a whole day children at the childminder as she usually does for work. Consider the possibility of at least some appointments taking hospital instead of having to travel so far.



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Activity 38 - Scheduling and timescales for a

Case study and respond

Suzanne is 78 years old and is recovering from a stroke that has left her with limited use of her left hand. Her speech has been affected by she is able to swallow and considers that she's been very lucky the solution is it more severely affected.

Although Suzanne is making and Judgress in her recovery, she is a very impatient property in the same should be fully recovered and back to her old busy and the same weeks.

As Suzanne is unable to drive, she is having to rely on others to take her to appoin and the hospital. The physiotherapist and occupational therapist have been make

Suzanne's daughter, Elaine, who lives nearby, has been taking her to appointment teacher, with small children to care for, and relies on childminders to care for the Suzanne is telling her daughter that her progress is too slow, that the appointment that she shouldn't have to go.

Read the case study above.

Imagine you are a practice nurse at the GP surgery. You have received an email for asking about the rate of her mother's recovery and if the visits to the hospital and as they're always at such an inconvenient time. In responsible have arranged a which you're planning to discuss her concerns and he with some workable s

Write your suggestions in the table of the suggestions have been started for Go on to a second page if the same suggestions have been started for the suggestion of the suggestion of the suggestion have been started for the suggestion of
1 Foundier	Response and possible so	
Rate of recovery (Hint: think of physical, intellectual, emotional, social)	 Strokes take a very long time for recovery. For some Set small targets for achievement, such as making 	
Appointment times (Hint: think about Elaine's other commitments. How can you work around these?)	Importance of communication	

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Appendix 1: Activity 7 Mind Map (A3) May spread thi Malignant tumour – Will only cause a problem if... Benign – Primary tumour – Cancer occurs when... 54% of... One person in two... Prostate and bowel cancer Over half.... A man will know there's something wrong because... It's more common It's less common... It's the most.... in... He may feel he has to strain He may feel as if... empty his bladder.

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Pre-assessment Tasks for BTEC Health and Social Care: Unit 14

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Appendix 2: Activity 19 Mind Map (A3) There are two main types of anti-inflammatory The body naturally produces corticosteroids medicines: **Anti-inflammatory** drugs Inflammation is a natural response by the body to injury. The affected part can become... NSAIDs are commonly used to... Corticosteroids produce side effects, including: difficulty sleeping They are available in a range of forms, such as tablets, If the service user stops them v they may experience some unp weakness There are certain groups who should avoid them altogether, including people with liver or heart Anti-inflammatory drugs help to: failure and those with a... relieve pain Possible side worsenin Pre-assessment Tasks for BTEC Health and Social Care: Unit 14 Page 116 of 117



Appendix 3: Activity 32 Mind Map (A3)

