CREATIVE DIGITAL MEDIA PRODUCTION | PEARSON BTEC FIRST (LEVEL 1/2)

Unit 10: Digital Photography for a Media Production



Resource Pack for BTEC Level 1 / Level 2 in Creative Digital Media Production



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Teacher's Introduction

This resource has been designed to cover the content in Pearson BTEC Level 1 / Level 2 (First) in Creative Digital Media Production specification for *Unit 10: Digital Photography for a Media Production*.

It contains information sheets containing all of the key theory for each Learning Aim, in the same order as the Unit 10 specification. Interspersed throughout the theory are objectives, key terms, questions and tasks.

In addition to the information sheets are the following:

- *Practical Task* a scenario-based task requiring learners to demonstrate the skills, knowledge and understanding of the unit to research, plan, produce, and review a series of digital photographs.
- Learner Checklist encourages learners to take control of their progress by helping them identify where they can improve. Can be used for both peer and self-assessment.
- Crossword a fun activity to reinforce the unit's key terminology.
- Worksheets and Templates included to help with practical work that learners will complete during the unit.

Suggested answers to each question in the information sheets, as well as the crossword solution, can be found on pages 42-44. *Please note that these are not exhaustive and there may be alternative acceptable answers*.

Important: All tasks in this resource are designed to provide **practice only**, and are **not** designed or intended as a way for learners to provide evidence for the unit.

September 2016

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Aim A — Understand the production of dig

Objectives:

- ✓ To understand the characteristics, features and settings of digital camer
- ✓ To know the different reasons why digital photos are produced and how products.

CAMERAS AND CAPTURING IMAGES

Camera modes

There are a range of different contact and a specific and a specific and construction, the of control control

- Manual mode refers to a camera setting that allows the user to ha
 features and settings, which consequently provides the user with
 photographs that they compose, e.g. DSLR cameras.
- Automatic mode is when the camera automatically sets most or all exposure and focus. This usually depends upon factors within the amount of light.

Although DSLRs also have the ability to shoot images in automatishooting is the only mode available in some common devices such

Camera type	Description
Compact	A compact (or point-and-click) camera is the
	cameras, allowing the user to take photos in a according to a range of predetermined and cr
	However, the user is unable to change lenses settings, providing them with less control and
	An advanced compact camera is similar to a c
Advanced compact	range of additional features. Firstly, they proversional standards Or
	increases ability യ ar . re photos in low-ligh
	ney န so feature more advanced zoom featur
	any have electronic zoom (enlarging a section optical zoom (the use of lenses to zoom).
	A bigger sensor also generally means that im
	standard compact cameras.



Camera type	Description
Bridge	Bridge cameras are traditionally considered as compact and DSLR cameras – they feature so compact cameras while providing additional fSLR (single lens reflex) cameras.
	One distinctive feature is the large optical zoo to capture high-quality images at a distance a have larger sensors and better fixed lenses th of field control and macro performance.
DSLR (digital single lens reflex)	DSLR cameras provide ser with full manusettings such as expenses and focus. They also and the focus also and the focus also and the focus also are serviced by the focus and the focus also are serviced by the focus and the focus are serviced by the focu
	They retain the ability to be set to automatic easily and quickly take different types of phot Disadvantages, however, are that they are exposme distortion when recording video, such a

Questions:

- 1. What is a bridge camera? (1 mark)
- 2. State an advantage and disadvantage of compact cameras. (2 mark
- 3. What features set DSLR cameras apart from the other cameras listed

Capturing images

There are a number of features and settings on digital cameras that allow however, these features and settings can also have an impact on image quality.

• **Viewfinder:** The viewfinder is the name for the opening on a came look through and see the image to be taken, and differs between

The viewfinder on a compact camera is electronic, and functions by estimated will reach the camera sensor to form the image seen. Therefore, it could be accurate representation of the image.

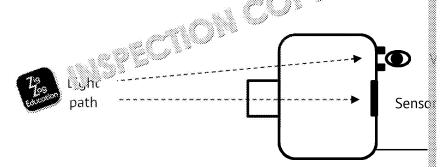
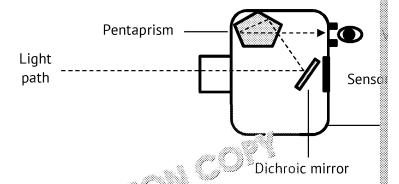


Diagram showing the light path of an electronic viewfin



As shown in the diagram below, the viewfinder within a DSLR works through pentaprism and a dichroic mirror that are used to reflect the image project viewfinder.



The light is reflected a securior mirror and then through the pental the user securior securior to take an image the mirror flips up and the light sense.

Questions:

- 4. What is a camera viewfinder? (1 mark)
- 5. Explain the difference between the viewfinders on a compact and D

Task:

What exactly is a dichroic mirror? Research how a dichroic mirror reflects for a DSLR camera.

Lens

Within optics, a lens is a device that uses refraction to change the focus of light. It is one of the components of a camera that allows the user to capture, focus and magnify images. There are two types of lenses available for cameras: zoom lenses and prime lenses.

A zoom lens is one that allows the user to change is a fincal length – and, therefore, the user's perspective a change of view.

The range of a zoom lens is many and with X and refers to the maximum and minimum and length; for example, a lens that has a focal length of the range of the rang

The obvious advantage of a zoom lens is that it takes up less space and relenses. However, there are also some disadvantages. In comparison to primage quality, decreased autofocus performance and smaller apertures.

The degradation of image quality is especially seen in the corners of the maximum focal length.



Prime lenses, on the other hand, only have one focal length – meaning the view remains fixed.

They do, however, have superior image quality compared to zoom lenses Other advantages include being lighter, having a wider aperture (which now-light conditions) as well as a wider depth of field range.

The main disadvantages of prime lenses are that they are more expensive than zoom lenses.

Questions:

- 6. What is a zoom lens? (1 mark)
- 7. Compare the strength and limitations of prime lenses compared to z



A camera sensor is a device that's used to read the amount of light within luminance – that is then transferred and converted into a digital signal as

The process begins with light photons being captured across a range of p

The number of photons is then read and converted into an electrical sign.

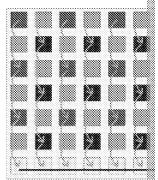
In a CCD (charged-coupled device) sensor the charge is transferred in coluread across the bottom row of the chip, where an analogue to digital convadigital signal.

CMOS (complementary metal-oxide semiconductor) sensors have a piece photosite that reads the value and then transports the signal using tradition this method is that each pixel can be read individually.

There are also a number of additional differences between CCD and CMO

- CCD sensors generally produce higher-quality images, have greated pixels, although CMOS sensors are rapidly developing and catching
- CMOS sensors are also more susceptible to image noise.
- CMOS sensors consume less power; CCD is traditionally less efficient
- Some CMOS sensors are susceptible to the value shutter effect with varying methods by which lighting to red.



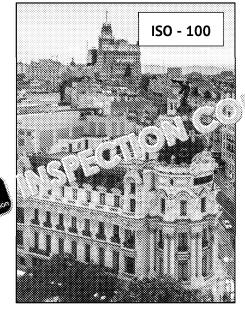


Example showing the metho sensors transport the electric



SO is a measure of how sensitive the camera sensor is to incoming light. At the sensor is more sensitive to light and, therefore, increases the exposure

However, increasing the ISO also increases the amount of noise within the as a last resort when other light settings are inadequate.





Comparison showing a similar image taken at low and hig

Questions:

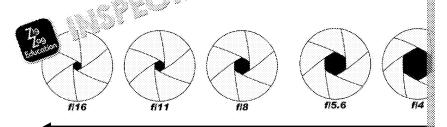
- 8. What is a camera sensor? (1 mark)
- 9. Explain how data is read from a CCD sensor. (2 marks)
- 10. 'CCD sensors are better than CMOS sensors'

 Do you agree with this statement? Provide arguments to support you

Aperture

The aperture is an iris-like opening located within the camera lens. It open pass through and into the camera body.

The size of the opening is measured in a unit case. It is one of the feet less that allow the user to image.



Less light



Shutter

The camera shutter is a barn-door mechanism located within the body of the components that controls the amount of light that reaches the camera

The shutter can open for a predetermined set of time and is measured in example a shutter speed of 1/250 means that it's open for one two-hunds

Questions:

- 11. What does ISO control? (1 mark)
- 12. Name the three factors that control the came exposure. (3 marks)
- 13. You've taken a photo in language to the nas lots of noise. Suggest what noise within the photo in language.
- 14. 'CCI as rs sewetter than CMOS sensors'

 Do you see with this statement? Provide arguments to support your

Memory

When capturing digital images they need to be saved if they are to be tradigital cameras don't have internal memory that allows the user to save perpendiable memory solutions such as memory cards.

Internal memory is generally limited to other devices such as mobile pho

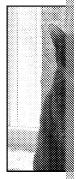
Storage type	Advantages	
Internal storage This refers to the memory that is already within the device.	Easy and simply to use.No need for additional hardware or cost.	•
SD card	Widely supported across photographic devices, including variants for mobile phones. Available of range of speeds for reading and writing data. Cheap to purchase.	•



LIGHTING

Flash

Fill flash is a method used to force the camera to activate the flash in order to provide additional light to a scene, in particular to areas of dark shadows. This technique is useful in situations where the background light is significantly brighter than the subject – leading the subject to appear as a silhouette.



Exam

However, it can also be used in other circumstances where the features of the subject are particularly darke source. example, when there is strong overhead iig fing

It's important to note the shirr meant to be used as the main source Images capappage is a sand overexposed if the flash is too bright for

The redfect is an abnormality caused when the light of a camera fl retinas of the photographic subject. Due to the speed of the flash the pup constrict and restrict the amount of light entering the eye.

Most modern cameras with a flash have an anti-red-eye feature. This works by producing small bursts of light before taking the photo, which allows the pupils time to constrict and, therefore, reduces red-eye.



Another method to reduce red-eye is within image-editing software. Using this process the red pixels are replaced by black and grey

Questions:

- 15. What is the cause of the red-eye effect? (2 marks)
- 16. Explain the circumstance in which fill flash is needed and what it aims

Exposure

Exposure describes how light or dark an image is and how certain parts of the image are exposed. It is determined by three individual camera settings (shutter speed, aperture and ISO) and external lighting

The three exposure satisfies hourd be used in conjunction value of other to determine the correspondence, and shouse adjusted in retrospect to another to maintain a level of exposure.





Underexposed

For example, if the shutter speed is increased then the f-number should same exposure within the image.

A photo can be underexposed or overexposed depending on the settings. underexposed describes inadequate lighting and overexposed means too intended can create the perception of poor quality.



White balance and colour temperature

White balance is the process of identifying 'true' white to remove unrealism so that colours (in particular white) look the same in real life as they do w recorded by a camera.

Digital cameras usually feature an automatic white balance calculator that aims to measure the colour temperature and set the white balance according to the environmental surroundings. However, it's also possible to set the white balance to various set default values that are defined by the type of light output spectrum, or manually specify the colour temperature value.

Key term

Colou to des colour® the spe measu

Taking photographs under dinei in types of light can produce different c photographer to character white balance.



As previously mentioned, different types of lighting can have different co changes to the white balance setting of the camera.

Listed below are a range of lighting types and the type of light that they

Light type	Description
Tungsten 3200 K	Common in house lighting, tungsten lights create It has been suggested that humans naturally preferight due to the old pre-electric temperature of cathem.
Fluorescent 4000 K	Produces a bright white light that appears to flood
Natural 2000 K - 10,000 K depending on the time of day and weather conditions.	The colour temperature of natural lighting tends to during sunrise/sunset where the sun is lower in the As the sun is higher in the sky, and the sky is clear temperature increases.

- 17. What is white balance? (1 7 m)

=್ಯಾರೌಂರ್ temperature of natural lighting? (1



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SUPPORT

Handheld

Most cameras feature some kind of ergonomic design which makes them taking photos and videos. However, there are still some holding positions stabilise the camera and reduce the likelihood of camera shake.

Firstly, the camera should always be held with two hands no matter the orien positioned over the shutter button and the left supporting the lens – with the

The elbows should also be facing inwards and feet positioned far apart to

Tripod

A tripod is a free-standing mount that allow the ser to adjust the height view. As the name suggests, it has the sign order to provide a stable camera – this is a necessity of scape areas of photography such as when the slow shutter speed.

The head appod usually has a degree of movement, allowing the use change the eld of vision. There are many different mounts that allow a surface that can be used within a photo shoot:

Mount type	Description
Monopod	A monopod allows the user hold the camera steady in situal spaces where a tripod may not be suitable – it has a foot p can aid stabilisation.
	Another feature is that it's extendable so that the user can addition height. This feature also allows the user to extend to reach difficult locations and take self-portraits from a di
Flexible	This mount allows the user to wrap the legs around uncons shaped objects such as poles.
mount	It can also be free-standing and use a one-height convention
Head- mount	This allows low-weight cameras to be mounted to the head o photographer – allowing first-person view shots of the action
Roll bar	A roll-bar mount is one that allows a camera to be attached such as a bicycle frame.
Suction 120	A high and suction mount is used within a number of sixty where other mounts wouldn't be suitable. One example of its use is on a car door.

Questions:

- 19. Suggest a possible disadvantage of using a handheld camera. (1 ma)
- 20. What is the purpose of a tripod? (1 mark)



FILE STORAGE

File formats

A file format is a method in which image information is stored (or compressed) in a file.

Compression describes the process of gaining an accurate representation of data without degrading the quality of the image to an unacceptable level. The reduction in file size allows more files to be stored and reduces the time required for images to be sent or downloaded over a network connection.

There are two file formats used within the it. in cography that are used for different reasonable

- *JPEG –* Joint ಗಟ್ಟಿ ಸ್ಟ್ರಾರ್ಟ್ Experts Group (JPEG) is a peas specifically developed for raphic images and uses lossy compression. It is commonly used for storing images in digital cameras and displaying images over the Internet due to its low file size and relatively good image quality.
- RAW A RAW file is a **lossless** direct reading of an image from the camera sensor. The main advantage of RAW files is that they contain all of the original image data, while JPEG and other file formats discard some of this colour information, which can lead to visible compre RAW files can then be converted into JPEG files if desired.

There are, however, a number of disadvantages associated with RAW files large files, which means that less can be stored on a memory card and the longer. They can also take a longer time opening on a computer and may compressed before transferring.

Image quality settings and size

Digital cameras also have a quality setting that when shooting images in level of compression used when saving the image.

Higher quality means that there is a lower amount of compression, which image with greater colour information.

Photo size is also a factor with image quality, in particular when images con could lead to pixellation.

While it is possible to enlarge ും പ്രിച്ചു Barely, rescaling beyond a certain decrease in quality and show evidence of pixellation - where pixel vic's 🐪 🔊 enlarging low-resolution images.

Questions:

- 21. State one factor that can impact file size. (1 mark)
- 22. What are the differences between lossy and lossless compression typ
- 23. State four camera properties that can influence image quality. (4 ma)

Key te

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- Los whic unne ima qua the 🕷 sma
- Los tech red
- Pixe sma bitm

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DIGITAL PHOTOGRAPHS IN MEDIA PRODUCT

Digital photographs are used in different media products to provide illust accounts of text. They feature in the following media products:

- E-newspapers: Within journalism and other information sources, p support any descriptive text and provide the audience with a visu people. Within tabloid papers photos are especially used for shock
- CD/DVD covers: Photos are mainly used within audiovisual media pre-Firstly, to show the audience who's within the video production or wand secondly to portray a certain style to the audience and assist audience.
- **Books:** All types of images and graphics and in book covers. He to show realism on a novel cover. There is also instances where has photos of the film characters in the cover to help audience as Within material as the guides and textbooks, photos are generating the described.
- sicn/training material: Instructional material is inherently a possible are primarily used to clearly show the reader how to do a self-assembly products, what the product will look like once it is applicable in activities which require precision.
- Advertisements: The primary use of advertisements is to persuade product or service being offered. Therefore, the principal use of in advertising is to glamorise the product and portray the image of e increasing the attractiveness.
- Interactive media: This refers to websites and other media applical interaction. Within this sector photos are used for a wide range of persuasive purposes.

Visual communication

Visual communication describes how the components of an image are use a message to the audience. This includes text and both symbolic and techniques are such as the underlying messages and the camera lens

Shorthand communication refers to universal symbols and symbolic code photography to convey meaning or a message to an audience.

The use of colour is an example of shorthand communication that helps to specific idea to the audience.

Common examples include:

Red	to signify energy, warring of durgency. In the UK red road sigive orders
Pink	as a simally feminine colour, used to symbolise love an
Blue	the colour of the ocean and the sky, is seen as constant in sensation of trust and security. It's commonly used in commu
Green	as the omnipresent colour in the natural world, often symbo
Orange	can represent warmth, energy and friendliness.

Task:

Can you identify three examples of universal symbols? These can be signs waving to symbolise goodbye.



Mise en scène means how a variety of visual attributes are arranged through the convey meaning to the audience. It's a French word that liter and includes a number of components such as setting and props.

- Setting: This is the location where the photo is taken, and can improve mood for the audience and influence how they perceive a charact. The set could be in an actual or well-known location to cause a featernatively it could be completely fabricated and unrealistic to competity the scene.
- Props: These are portable objects used within an image and can help scene, characters or themes. Key props could be central to an image event to the audience; for example, a man with a sing box symbolising
- **Costume:** The clothing within a production one just used to dress smallest article of clothing can take in meaning. It can convey per and event to the audience for also the personality of the characters.
- Make-up: Alth and a forgotten, make-up can be a significant program of the characters to the characters to the twhen the look of a character aims to induce a certain emotion of Japanese geisha without make-same response?
- Facial expression: This refers to facial expression and posture of the
 The facial expression of a character can be used to convey emotion a
 is instantly recognisable. This emotion is further emphasised by com
 On the other hand, conflicting body language and facial expressio
 and questioning among an audience.

Text can be used to complement other elements of an image through collegitioning can also be used to lead the view of the audience towards certainty the reading direction.

One of the main purposes of text is to provide the user with information the product or service that's being offered.

Purposes of digital photos

The purposes or reasons for use of digital photographs can generally be sort

- To enhance written text-based publications and reinforce the mes specifically useful within a piece of descriptive text where a photo understand.
- To market a product or service where a photo is mainly used to de product being advertised.
- Photos are also used on promotical event material such as adverged publicity and persuado.
 Telectome. They commonly provide the understanding of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the use of the expect at the event through the expect at the event through the use of the expect at the event through the expect at the expect at the event through the expect at the expect
- Tone Serest or awareness in a subject, such as within spondard image is used to provoke shock or amazement and the impanies such strong emotions.
- In media sectors such as news and journalism, photos can be used to a video – a series of images will usually show the key stages of the audience to further their realistic understanding.

Task:

Using the Internet find a photo of your choice.

Now identify its purpose and analyse it according it to the mise en scène



Aim B: Explore techniques of digital p

Objectives:

- ✓ To know the different types of photography and the differing technic.
- ✓ To be able to store and export digital photographs.

EXPLORING PHOTOGRAPHY

It should be noted that although digital photography. The features and settings are different to those of traditional (and b) and photography, the techniques, photography fundamental advancement remain the same.

Location_shots

Locatio The resultant photography shoots that take place in outside local These calling the photographer to undertake various techniques to extend that the shoot and resultant photographs are suitable for use.

Location photography can be one of the most uncontrollable environment the wide range of factors (both human and environmental) that can affect image composition and quality of the photo. One factor that photographe generally abide by when taking outdoor photos is the concept of the 'gole – this is a short window after sunrise and before sunset where there is lescontrast and a softer colour palette.

Architectural photography is an example where certain techniques are us employed by photographers to frame photos to incite amazement and a comperspective. Buildings are usually taken from a low angle looking up, which highlight the height and create the impression of a dominating high-rise reaching into the sky.

When taking rural shots the landscape is usually the feature that the photaudience. A low-angle camera with a wide camera lens is another position expansive view of the scene.

Cityscape shots (landscape shots of a city) are commonly taken from a high the spread of a city over the horizon.

Questions:

24. Provide an analysis of an uncontrollable factor that could disrupt an

Task:

Using a camera and the equipment available, go around your school can shots using the techniques outlined above.

Do you feel that your photos demonstrate the stated audience reactions?



Studio

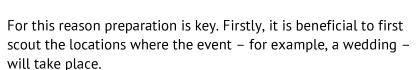
When taking indoor studio photos, factors of the environment such as lighting can be totally controlled and stylised in the view of the photographer – allowing them to be more experimental with the photo composition.

One popular choice when photographing portraits is to have a shallow depth of field. This means that the subject of the photo is within focus but anything in the background is blurred or out of focus (the details of how to achieve this effect are explained later).

Pack shots are another type of image taken with an studio environment. I usually used for advertising or promotional, imposes that aim to gain the generate interest. These photical in the used to draw the attraction are viewer towards a certain aspect by make White spaces are used to emphasise text and increase readability.

Events photography

Events are fluid and dynamic occasions where the constant moving and interaction of people can make it a daunting place to be tasked with taking photos. Within these situations the photographer only has a limited amount of chances to take photos!



This will allow the photographer to gain a perspective for the scene and lumber of test shots within the area which can save time during the actual

An additional point is to ensure that the exposure and focus are correct for basic requirement, it can be harder to maintain in a moving environment, speed capable of recording sharp images.

In some situations, particularly with sports photography, it can be necessatripod and use a lens or camera with a large zoom range due to the varying and the subject. The tripod also provides another advartage of helping the the camera easily.

Questions:

- 25. State con karalin jimerior studio photo shoots. (1 mark)
- 26. Sug factor that makes event photography difficult. (1 mark)

Task:

Investigate the shutter speed and aperture of a camera. Can you create

Can you utilise shutter speed to make an image blurred or sharp?



Night shots

Low-light photography can prove to be impossible on some cameras that don't allow the user control over changing the exposure settings. Night modes on some compact cameras cause the camera to drastically increase the ISO value in a way that introduces substantial noise to the image.

However, with DSLRs the user has the ability to manually adjust the exposure and also record creative photographs using the available light.



An

For example, when taking photos in low light a ps for pact cameras will the light levels and then adjust the real wing exposure levels based upon

However, on a DSLP is a sould decide on how they want the photo to control and he seems are.

One such example is light-trail photography where the low light is used to where visible streaks of light are seen across a photo. This long-exposure use of a long shutter speed.

Task:

Although light-trail photography is best suited at night, it's still possible to low lighting conditions with the right exposure settings.

Using a camera and a torch try to create your own light-trail photograph.

It might help if you close the curtains/blinds.

DIGITAL PHOTOGRAPHY TECHNIQUES

Macro mode

Macro photography in simple terms refers to the photographing of objects extremely close up, the aim of which is to produce images where the subject is life-sized or bigger. It is useful for taking images of subjects that are not normally visible to the human eye, such as images of insects.

When the subject is recorded at life-size ont and expense it's at a 1:1 magnification ratio, and at half-size in a 2 magnification ratio – anything smaller than 1:10 ratio second considered to be macro.

It is pos length of the subject while subject while subject while

For practical reasons a specialist macro prime lens is usually used, which shoot close and focused images of the subject from a distance, although to a telescopic lens.

Questions:

27. What is the minimum magnification ratio to be considered macro phase



Framing

Framing describes the position of the camera in relation to the subject, as within the frame. Different shots are used to give a number of perspective providing additional insight to the audience.

Type of shot	Description	
Extreme long shot	Shows a large amount of the scene to establish the general location.	
Long shot	This type of shot still contains the scene; however, it gives the audience a more specific location of the action.	
Full shot	Shows the entire height of a person within the frame, allowing the audience to see the subject clearly. It allows the audience to fully see the costumes and the relationship between characters within the setting.	
Medium shot	Contains a view of the character from the waist up. It allows the viewer to see the character's face and body language more clearly. It also allows them to clearly e he interaction with other management.	
Medium close-up	Includes the face and shoulders of the character. Allows the viewer to see the character's emotions while still being able to see the background.	



Type of shot	Description	
Close-up	A very intimate shot where the background is out of focus. This allows the audience to concentrate on the subject's face, emphasising their facial expressions. When an object is framed in this way it's usually to show detail or an important element.	
Extreme close-up	As the name suggests it a ry specific part of the character's fee. It's use in the subject's a specific part of the subject's sace.	
Over the shoulder shot	This shot is usually used to show conversation. It allows the audience to see the character's reaction and implies a degree of intimacy between the subjects.	
Point of view shot	This shot aims to be from the view of one of the characters, used in order to make the audience feel as if they are part of the photo.	
Aerial shot	This refers to a shot from it is, howing objects such as care and people below.	



Angle

The angle of the camera in relation to the subject can give additional emeaudience. For example, it can impact how the characters or scene are per

Task:

Look at worksheet (A) detailing a range of different camera framing shots

Complete any missing sections:

- Name of the shot
- Description
- Audience impact of the shot
- Sketch of the shot

	- Paradistra
Angle	Description Is a samera lens that encompasses a wide angle of view ually greater than 55°) and a short focal length.
Wide angle	It can be used to show a wide landscape and also physical distortion between objects, which is particularly relevant whe close to the photographic subject.
	For example, in the image to the right the horizon and the flown have become distorted so that straight lines appear curved.
	The opposite of a high-angle shot, the camera is low and show the subject from below.
Low angle	It's used to make the subject appear powerful and domineering as they fill the frame, creating the impression that the viewer a helpless child looking up.
High angle	The camera is positioned up high and looks down at the subjection of belittling the subject, making them appeares if they are a child looking up at an adult.
Eye- level	This is a standard visa. how and the subject neutrally in a way the audience of the subject to view it in person.
Canted angle	A canted show is when the camera is tilted on its roll axis so that the horizon is at an angle with the bottom of the frame. It aims to disorientate the viewer and portray emotional tension.



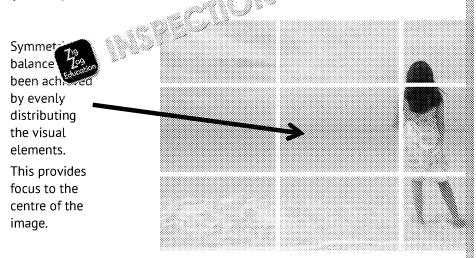
Level

Apart from eye level, a photograph can be taken at either a high or low le requires a change in the camera angle to adequately refocus upon the su

A high or low camera level may at times be necessary to capture an image height different to that of the photographer, but it can also be used in ord different perspective on a scene by changing their viewpoint.

Composition

Composition refers to the way that specific elements within the photo are layout of the image. It's used to influence the perspeciale or emotional state Looking at the image below you can see two aims to of image composit symmetry.



The rule of thirds is a common yet popular method of composing images, cameras have the ability to overlay the grid onto the live-view. The horizonatural horizontal lines of the scene such as the horizon or floor.

Questions:

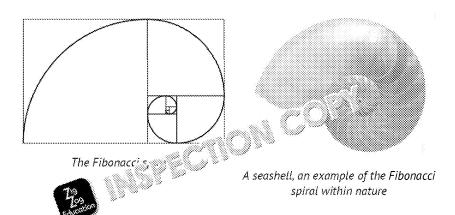
- 28. Define 'composition'. (1 mark)
- 29. Provide two ways in which the composition of an image can influence





Golden ratio

The golden ratio is another composition design principle based on the ratifrom the viewers' perspective. This ratio appears within nature, which could have are also numerous examples of art and photographic works over time the golden ratio in mind, such as the Mona Lisa and the Last Supper.



The Fibonacci spiral is the most well-known method of visualising the gollhow a series of diagonal points create a path where elements within the last aesthetic appeal.

Note how in the image to the right the proportions of the golden ratio are also aid visibility. The positioning of the children in an identical shape to gaze of the audience in an identical pattern.

Leading lines

Leading lines are a photography technique where lines are used to guide the view of the audience. Usually they occur with straight lines beginning at the bottom of the image that narrow towards an infinity point where the lines converge in the middle of the image.

Examples of how leading lines can be used:

- By providing a continuous lead from the foreground to the background it can help to create depth and perspective.
- It can lead the viewers to a central spicet where the lines converting importance.

Although leading the commonly found in man-made objects within are also examples where it could be used within nature – the leither, just out and experiment!





Positioning

To demonstrate the use of alignment and positioning look at the image on the right. Within this image the old Chinese pavilion has been juxtaposed with the industrial factory in the background to emphasise the difference between and change of the human and natural environment that has occurred over time.

This is further highlighted by the inclusion of trees and shrubbery in the foreground – the photography could be aiming to lead the audience to think about how the pavilion sits within nature while the imposing figure of the factory looms in the background.

Lastly, this image could have been taken by the shape apher to display a physical manifestation of a perceived shape in Chinese culture philosophy nature is observed as so your and sacred energy force, and with an ever-increasing and sacred energy force, and with an ever-increasing and sacred energy force.

Frames a common concept within photography. This is where natural objects such as arches and holes are used to provide a border or frame to an image. The main focus of using frames is to isolate the subject of the photo and draw the attention of the audience towards the centre.

Looking at the image to the right we can see that the framing gives the audience a degree of context for the subject. The archway suggests that the ruins might have been of a religious building due to the shape commonly being found in religious buildings.

It also helps provide depth to the image and cause the audience to think about what it's obscuring.

Viewpoint

Constantly shooting photos from eye level can sometimes appear boring different viewpoints are used to add creativity and differing perspectives a range of heights and angles that can be used by photographers.

Focus

Within photography depth of field describes the amount of the photo that A shallow depth of field is when only the subject is in focus, and the back blurred. This can be used to draw the attention of the audience to a special A deep depth of field is the opposite; this is when the entire image is in form







Look at the two images above. The one to the left has a very shallow depart appearance of the background. However, in the right-hand one with a demore detail across the entire image.

Depth of field is controlled by the aperture of a camera. A shallow depth aperture (small f-number), and a deep depth of field by a small aperture (



Zoom

There are two different types of zoom that feature on digital cameras: opt Optical zoom is where the physical movement of lenses magnifies an image photographer to gain a closer perspective of the subject without significant the image.

On the other hand, digital zoom is a process whereby the pixels of a section further focus on an area. This method leads to significant decrease in imaginately pixels are stretched out to cover a greater area.

Questions:

- 30. What is the purpose of leading whom photography? (2 marks)
- 31. What does viewpoin for the (1 mark)
- 32. Whate le a dield? (1 mark)
- 33. What difference between optical and digital zoom? (4 marks)

Task:

Now that you've learnt about some of the rules of photography and comexperiment taking photos while keeping these principles and guidelines in

You don't have to copy the shots listed, the aim is to be creative and use about what you want to achieve from the photos, what message you migli audience may feel.

At this moment don't worry about changing the camera settings, keep it set

EXPORTING AND STORING DIGITAL PHOTOG

File transfer

There are a number of different methods by which data can be transferred computer. Most modern digital cameras use SD cards as a standard storage modern laptop computers have inbuilt SD card readers that the user can without the need of additional equipment or software.

Digital cameras also come with USB data ca'ce the facilitate data transfersupported digital devices.

Some smart devices such not lo priones and other compact cameras as photographic and contage to the Internet or another device through as Blue to now in Fi. This method, therefore, eliminates the need to photographic and stances.

Questions:

- 34. What is the standard storage device used on most digital cameras?
- 35. State four ways in which users can upload photos to a computer. (4 r



File formatting

When compressing a photo file it's important to note what the photo will which it is to be displayed, as that can help decide the choice of which fo

As previously covered, JPEG files are usually small in size and commonly over digital devices and the web.

TIFF (Tagged Image File Format) is a lossless file format that's commonly publishing industry, and typically results in large file sizes.

Version control

File organisation is important as it allows files to so and easily and avoideleted on a computer. This is particulated if working within a tellarge number of files.

Version control des the process of saving documents in the context example the fire grant of a graphic being saved with 'v1' and following versions.

Naming makes them significantly easier to locate, and it also allows within search functions. One method of naming files is by using their description; for example, a photo of a kitten called 'DSCN004.jpg' could be renamed 'Black_kitten.jpg'

Not only should the image be named properly, but also the folder that contains it. It could be useful to name the folder and image with the current day, month and year as this would identify when the photos were uploaded, such as 'Black_kitten_05042015.jpg' (5th April 2015).

Storage devices

When working with digital files they need to be saved on a memory device edited. Most modern devices allow the user to input additional memory be expandable solutions. Such hardware is necessary when working with a hardware is that hold more memory than other conventional file format types.

Storage type	Advantages	
Internal storage This is the memory already within the device.	 Easy and simply to use. No need for additional hardware or cost. 	Usually of memoryMost DS come wi
SD card	 Widely Top requestross O Repnic devices, Sinctuding variants for mobile phones. Available in a range of different file sizes and speeds for reading and writing data. Cheap to purchase. 	• Small ar that the



Storage type **Advantages** Portable and Slow to re transferrable to other informati DVD platforms. methods. Cheap to purchase. Standard 8 Can be eas the data ເ Some nev MacBook\\(\) Due to th misplaced Data cini sa iliyand Due to sn External Hard Drive / ા િંધ્યું ∍e read, written misplaced and transferred. **USB** Can be pr Portable and removed 8 transferrable to other Can be co platforms. size. Use little power. Small in size and easy to store. Available in various storage sizes, e.g. 250 GB, 500 GB, and 1 TB. Allows data to be shared No access Web-based storage between connected network. devices. Can be ex Accessible in different locations. Frees physical storage for other uses and additional files. Easily accessible for Not as ea PC/Laptop transferring data to other many oth sources.

Overall it's good practice to save data and fine on at least two devices, on and the other as a backup in the accessible location. This helps to so or corruption of files.



- 36. What is version control? (1 mark)
- 37. What is a backup and why are they used? (1 mark)

Task:

Can you think of any disadvantages of using a PC/laptop as a storage s



Aim C: Create digital photographs for a

Objectives:

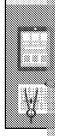
- ✓ To be able to identify client requirements and develop concepts from a 🖔
- To understand the use of photography techniques and other considerations.
- ✓ To produce digital photographs for a media product.

DEVELOP CONCEPTS FROM A FAR EL

Brief

When producing a moving are for a **client**, it's vital that the production has a ned and organised efficiently to ensure the casent's wishes have been fulfilled.

In this instance it's useful to create a brief after first discussing the project with the client; this is a short but descriptive account of the task ahead.



Key

In general the brief should be used to inform the photographer exactly what's needed to complete the photo shoot as desired by the client.

Objective – what is the purpose? Where will the photos be displayed?

The objective is important because certain factors such as the style of photography, post-production editing and composition will be determined by both the subject being photographing a historical item for display in a multiple wouldn't likely choose angles and viewpoints that distort the real

- Target audience who are the audience? What are their age, sex,
- Subject what is being photographed and what makes it unique?
 the photo in terms of the audience reaction? This can help to influe of shot and viewpoint.
- Scope describes the size of a project, in particular any set deadle photos to be produced in time for an exhibition
- Budget the budget is determed to range of elements such a and the need to rent and it onal equipment. Overall, it will var of each individual and its second and its second
- Trestrictions any particular ideas that the client like the duction as a whole.
- Experimentation this refers to creative photographic aspects sue to the exposure settings.

Overall, it's essential that the brief is as thorough and appropriate as possible project to understand the client's requirements. This helps to ensure to organisation are suited to avoid **scope creep**.





An example of a brief is included below:

Client Information	ZigZag Fabrics is a local seamstress cooperative for the homeless.
Contact	ZigZag Fabrics Gloucester Road Bristol BS1 0AB
Project	A range of male and female modelling shots.
Project Information	They want to open a charity shop and sell som have produced, and want one modelling sho window and also
Requirements and Restrictions	Some the grown locations. The gat body types of models. Animal studio shots.
Objecti	Increase publicity, measurable by assessing en website views.
Target Audience	Males and females aged 16+
Key Dates	Deadline: 14 th February 2017
Budget	£200 for any additional costs relating to equip
Experimentation	Some shots showing the background environn
Additional Information	Further emphasis on clothes rather than faces

Questions:

- 38. Why is it important to create a brief? (1 mark)
- 39. Suggest a scenario that could lead to scope creep. (1 mark)

Task:

You have been tasked with organising a photoshoot to take photos of you facilities. The photos are to be used in an open-classic schure for the publication.

- F ເສືອ e ເສືອສັງective
- A ance and style
- Target audience
- Design constraints
- Details of core content



Ideas development

Upon receiving the design brief, you must analyse, research and develop project.

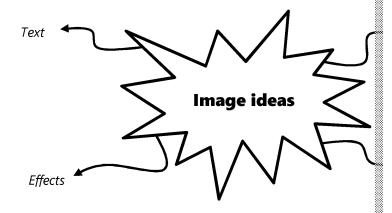
There is no strict method to undertake this process, and it usually starts vistudy of the brief to clearly identify the main client requirements.

When working within a team this process allows everyone to cross-exami

Brainstorming describes a process for collecting a large amount of informatics an enjoyable and effective group word-association, ctivity that aims to associated with a key word or idea.

Words are written down, സ്വാദ്യായ് should generate more words associteam each member േ ് ലോഗ് should contribute.

This apple encourages team contribution because it is easy and straig ideas can be written down which can be drawn out and further explored a



Discussion is another important stage within the development stage that the client requirements and desires. This could also be part of the process to discover the overall intended audience impact of the media product.

Task:

Within a group, brainstorm about a promotio at their for dairy products comes to mind.

Next create a mind man with board from the strongest ideas.

Has it hel product?



Current practice

Market and competitor analysis is another method that can be used to de you look at similar media products and study their strengths and limitatic method is that it allows you to use the information that has been gathered your ideas – incorporating and adapting ideas that were successful and in less effective in fulfilling its aims.

An additional benefit is that it allows the identification of market trends a market that could be used for product development and marketing purpo

Review initial ideas

Before going forward to solidify ideas and under the photo shoot it's ideas. This can be through the use of the incomal and outside scrutiny, we objective feedback to be anised in the parties which can then be used.

It also a tire to consider alternatives and create contingency plans changes the project.

Lastly, it is a chance to ensure that the idea is truly suited to the client re important factor of the review and development process.

Trial layout

A trail layout is essentially a mock-up or prototype of the final product whow or where the photograph ideas will integrate within the media product ample opportunity to reflect upon the ideas and overall design, gain extensions plans for any issues that may arise during the production.

One way in which this could be undertaken would be to sketch or outline of the media product.

Questions:

- 40. What is meant by 'client requirements'? (1 mark)
- 41. What are the advantages of reviewing initial ideas? (2 marks)
- 42. What is a trial layout and why is one used? (2 mills)





CONSIDERATIONS FOR DIGITAL PHOTOGRAP

Considerations

In addition to photographic and environmental techniques there are also that need to be understood to successful undertake a photo shoot.

- Subject: Whether a person or object, the subject of the photograps prepared for the shoot. This includes visual preparation through the mental preparation when working with other people.
 - Models and other crew members should be informed of the timetal dramatic intentions for the photos. This will help to ensure that the other members help to achieve the dramatic intentions.
- Availability of resource: By crossing almork plan, space and time consure that personne's and equipment are available for use
- Booking: It we becessary to book studio space, models and economic in the successor of the second in the second
- Test shots: Before the actual shoot the photographer should visit suitability for the set purpose. During this process some test shots the photographer to frame the scene and assess any factors that c the photos.
- Image resolution: If stated by the client, then the image resolution match that of its use. This is to make sure that image quality remassuffer from pixellation when scaled.
- ISO: The relationship between ISO and image noise should always account when setting up the camera, especially within low-lighting as noise can have a substantial impact upon perceptions of image extremely time-consuming process.
- **Location assessment:** Scouting the location prior to the shoot is on help identify any potential viewpoints, risk and advantages of the particularly relevant when shooting in exterior locations where we can be unpredictable. This process is known as a location recce as sketches/photos of the location that can used in the organisation.

A risk assessment is also part of this process. This is a document where pedetails of how to ease the effects of these risks should they occur.

Task:

Using work et Complete a location recce and risk assessment interior complete a location of your choice.

Remember to include factors such as weather, light sources, power su



PRODUCTION OF DIGITAL PHOTOGRAPHS FOR A

Digital photography techniques

In addition to the techniques previously outlined, the shutter speed of a camera can be used to show motion within an image as sharp or blurred – portraying motion or a freeze-frame.

For example, in the images shown to the right, the upper photo has been taken with a high shutter speed, displaying the moving water as crisp. In the lower image, the water appears blurred and creates the appearance obeing fast-moving.

Within video production this can be used to liquay motion blur. For example, a moving object carbon of appear realistic with an amount of motion blooming with a slow shutter speed.

Composition and mise en scène

When thinking about composition and mise en scène, possibly the most in that the choices made are suitable for the brief and fulfil the requirement appropriateness of certain elements such as framing, cropping and angles against the same criteria.

The rules listed within this resource are common important techniques us Composition is of particular importance as it allows you as the photograp the audience think.

Although they are listed as rules this doesn't mean that they need to be formore as common guidelines that you can use. After all, if everyone follow then everyone's photographs would soon become identical. The best met these techniques and your own creative imagination.

Storing

When saving files, they should be in the file format as specified in the clie format on which they will be displayed. You may find it useful to refer to formats detailed earlier (page 11).

Copyright

Most images and photos will be project by some sort of copyright, meaning that in a self the self this image the owner of the copyright will read the permission.

Generall reator of the work automatically owns the copyright; however, when an employee creates a piece of work on behalf of their employer the copyright usually rests with the employer. The copyright holder can also assign copyright to another person or allow another person or organisation to license their work.

Where an image has more than one creator then they will all be the copyright owners.

COPYRIGHT PROTECTED



It co and rec

Jus

iı do It's important to note that making a copy of a photo or taking a photo of doesn't give you copyright.

One exception is when an analogue photo is digitised (with permission fr sufficient skill was deemed to have been used to achieve this.

Some photos found online are controlled by libraries that hold copyright rights to the images. These can be subject to additional restrictions that a as restrictions for commercial purposes.

As a digital portfolio is meant to be of your own work images obtained fr included within a portfolio, nor should any work. "you haven't created."

The only exception to this rula like a some post-production editing has in this case it should have a "moted to the audience."

copyright lasts for the life of the creator plus an additiona year of the death, after which it's transferred into the public domain. Implications of copyright infringement vary depending on the circumstan owner.

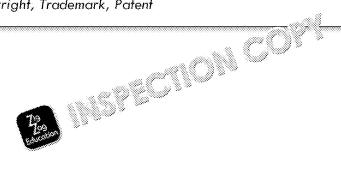
Consequences can include:

- The user of the photo being asked to buy a licence.
- The owner of the copyright bringing the user to court. This could to use the photo, legal fees and financial compensation.
- The user could even be subject to criminal prosecution if the infri deliberate and on a commercial scale.

Questions:

- 43. Define 'copyright'. (1 mark)
- 44. In what circumstance can you use somebody else's work within your
- 45. When does a piece of intellectual work transfer into the public dom
- 46. Which of the following property rights are not awarded automatical

Copyright, Trademark, Patent





Aim D: Review own digital photography fo

Objectives:

- ✓ To be able to select photos for use based upon quality and aesthetic fea
- ✓ To assess the use of technical skills in creating digital photos for a med
- ✓ To be able to self-evaluate your own photography work.

EDITING

Selecting images from a contact an 🐔

A contact sheet is the name giver the scument that displays the series of photographs taken in 5 2000 shoot. As they are laid out together in series in a sex easy for the photographer to select or reject in the sex and on a comparison with the others taken.

This method of display is useful when there are a large number of photos to look through as it allows you to quickly see which photos have desired qualities.

Contact sheets can also be used to show a client on paper (as opposed to a digital display) the choice of images likely to be used within the media product.

There are a range of important image features that should always be considered when selecting or reviewing photographs. These are:

- Focus unless intended for aesthetic appeal the subject of an image should be sharp and in focus.
- Exposure there shouldn't be any parts of the image that are excunless intended and justified.
- Noise an indication of poor use of camera skills resulting from a

SELF-EVALUATION

Critical thinking and self-evaluation can be thought of as processes that reflection, both of which are vital factors in this final stage.

When reviewing a finished project a numbe of specious are raised in related in related in requirements.

Here are example a uniber of questions you could ask yourself when

- Yere the aims of the brief?
- Are the final images suited to what the client asked for?
- Is it appropriate for the target audience?
- Is it an acceptable file format for the use and application?
- Is it of acceptable quality?
- Does the composition of the shot relate to the message I'm trying
- Are all the shots properly exposed? Is the lighting suitable?



There should be a clear justification for the selection of photos within a of justification should also extend to the composition and exposure of the

The use of analytical and evaluative questions could help to force you to evidence and reason when referring to your justification.

Examples of analysis questions:

- How...?
- Whv...?
- What are the reasons for ...?
- What is the relationship between... and...?
- What are the possible solutions to the size is: 38?

Examples of evaluation questions.

- What are the traininges or disadvantages of ...?
- ai 👙 unclear?
- support for my opinion?
- Is... applicable for the project?

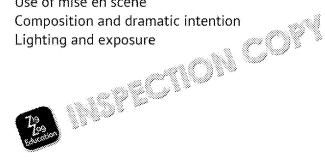
It's important to receive outside, creative and unbiased feedback as it pro alternative perspective. Before showing the client it could also be useful intended target group and assess their views. This could give the opportu changes.

It could be useful to note down all the strengths and weaknesses that we various stages of the project development. The significance of this stage making similar mistakes and to highlight key strengths, which both benef

You should access your work according to the requirements and guideline the intended and actual audience response.

Listed below are a number of features that could be considered when self

- Shutter speed
- **Aperture**
- Focus
- Framing
- Use of mise en scène
- Composition and dramatic intention
- Lighting and exposure





Unit 10: Digital photography for a media produ

For this task you must research, plan, produce and review a series of digit cover all of the learning outcomes and main tasks included within this qu

Scenario – Music shop

A local music shop has opened a musical workshop within your school th aims to help young people learn how to play musical instruments, and they have a range of instruments that they want to case to other students.

The shop plans to display in posters around the local area to advertise the serial in Tawo promote online sales of their video lessons.

achers has recommended you to take a range of photos that can be used in the marketing campaign. The workshop wants internal and external photos of models that can be used to represent a theme of empowerment and confidence through learning. It also asks that the photos feature various musical instruments or equipment as an integral part of each image.

The rest of the idea development has been left to you to decide, requiring requirements listed above.

At least **six** photos should be produced that demonstrate a variety of style composition. You must show knowledge of the camera settings and feature

Task 1 - Research

→ This task covers **Learning Aim A**

Within this task you are required to investigate the reasons that digital pl media products and how camera settings work.

You then need to select and analyse two different photographs and prese purpose and use.

__ **Explore**→ This task covers **Learning** am i ex ာ ့ အဖြုံးal photography in different environments and 🤉 ns to the scenario you have been set. You must evaluate y strengths and limitations of the ideas that underpin the photos you find.

You must remember to produce annotated examples alongside a present your analytical skills.



Task 3 - Plan and Produce

→ This task covers Learning Aim C

In order to complete the task you must first further develop the brief using your own ideas and initiative on how best to improve the brief while taking note of the specific client requirements.

It's recommended that you follow the planning and pre-production guidelines outlined within this guide but you're also free to implement any changes that you see fit.

You must, however, produce the required document show how you planned the production of the photographs.

Finally, you will have to right a policy shoot to produce the digital photos and techniques that the name tearnt to complete this task. You have to exporte the produce of the client.

Task 4 - Review

→ This task covers Learning Aim D

Now that you have finished taking photos you must review the work that

You should assess and consider your work against the technical skills out that you intended to produce when planning the photos.

Think about the impact that your choices throughout the production had strengths and limitations of your work.

Your thoughts and findings should then be documented in a written apprair



Unit 10: Digital photography for a media produc

Learning aim A: Understand the production of digital photography

Mark band	What is needed
Level 2 Distinction	Have you provided evidence of discussion and analysis about wh photographs are produced in two media products across a range media sectors?
Level 2 Merit	Have you explained how digital and endered used to produce phimages? Have you explained how digital and endered used to produce phimages?
Level 2 Pass	you described how digital cameras are used to produce phonages? Have you described the use of photographs in at least two differences products?
Level 1	Have you outlined how digital cameras are used to produce phot images? Have you summarised why photographs are produced in at least different media products?

Learning aim B: Explore techniques of digital photography

Mark band	What is needed
Level 2 Distinction	Have you demonstrated confident use of limited digital photogratechniques?
Lev	Have you analysed the techniques used in two different types of photography for digital media products?
Level 2 Merit	Have you demonstrated effective use of limited digital photogratechniques?
Leve	Have you explained the techniques used in two different types o photography for digital media product of
Level 2 Pass	Have you demonstrated adrage to or limited digital photogratechniques?
Lev	Have you to the techniques used in two different types o
el 1	you demonstrated basic use of limited digital photography techniques?
Level 1	Have you outlined the techniques used in two different types of photography for digital media products?



Learning aim C: Create digital photographs for a media product

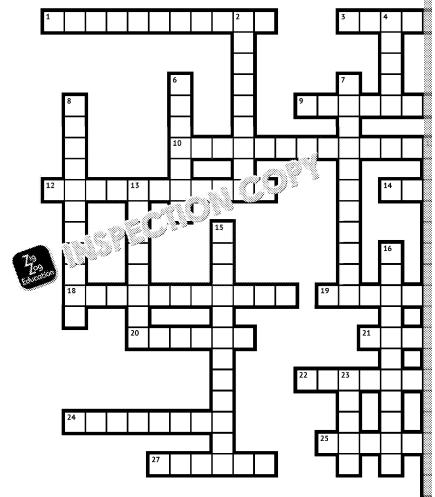
Mark band	What is needed
Level 2 Distinction	Have you produced creative shots in different lighting condition digital media product that show a confident interpretation of a b
Level 2 Merit	Have you developed a creative concept for photographs for a dig product with competent reference to photographic consideration. Have you produced effective interior digital obtographs with collighting for a digital media product and so we an appropriate into of the brief? Have you produce defference exterior shots for a digital media prospersion of the brief?
Level 2 Pass	yc developed an appropriate concept for photographs for product with adequate reference to photographic conside Have you produced acceptable interior digital photographs for a product? Have you produced acceptable exterior shots for a digital media that only show a suitable interpretation of the brief?
Level 1	Have you developed a basic concept for photographs for a digital product with only limited reference to photographic consideration. Have you produced basic interior digital photographs for a median Have you produced basic exterior shots for a digital median product show a limited interpretation of the brief?

Learning aim D: Review own digital photography for a media product

Mark band	What is needed
Level 2 Distinction	Have you evaluated the technical and creative choices made dur production of your photography, including how these have enab fulfil the brief?
Level 2 Merit	Have you analysed the technical and gracive choices within you photography, including in North
Level 2 Pass	y y tended your selection and rejection of final photography tended media product? nave you explained the technical and creative strengths of your photography?
Level 1	Have you produced a summary of the final photographs selected intended media product? Have you summarised the technical strengths of your digital pho



Unit 10: Digital photography for a media pro



Across

- 1 The 'coming together' of technologies to create a new device. (11)
- A type of camera that gives the user limited control over its settings and exposure (point and click). (7)
- **9** The art of taking and processing photographs. (11)
- **10** A specific group of people who are the intended viewers or recipients. (6,8)
- 12 The distance between the centre of a camera lens and its focus, expressed in millimetres (mm). (5,6)
- 14 An acronym for the type of camera in which the user has full control of its settings and exposure. (4)
- 18 Portrait or landscape. (11)
- 19 A type of camera lens in which the focal length. (4,4)
- A device the sure the amount of light within a scene
- 21 A three mount used to stabilise a camera. (6)
- The amount of light within a photo, determined by the quantity of light reaching the image sensor. (8)
- 24 An iris-like opening located within the camera lens that opens and closes to allow light to pass into the camera body. (8)
- 25 A term used to describe how much detail an image holds. (10)
- 27 A camera known as being halfway between compact and DSLR. (6)

Down

- The exclusive legal riwork. (9)
- **4** A type of photograph close distance. (5)
- **5** A compression techn data from the image.
- 6 A barn door that part reaches the camera s
- 7 A composition design 1.618 that is balance The layout of assets the as text and images. (3)
- 11 A phrase used to descar an image. (6,11)
- 13 A compression techn without a loss in qual
- How much of an image aperture setting on a
- 16 The process of gainin without degrading th
- 17 The process of definition colour white in reality.
- A singular square, it i image. (5)
- The name of the sett sensitivity. (3)



Answers

QUESTIONS

- 1. A bridge camera is one that has the settings and features of both a com
- 2. One mark given for a correct advantage and one for a correct disadvant

Advantages	
Easy to take photos and simple to operate.	Lens can't be char
Commonly have some customisation features.	No control over ex

- 3. One mark for each of the following answer ("n ") (s)
 - The ability to change the campa s.
 - Full user control over the X sare settings.
- 4. The viewfinder is a for the opening on a camera that the photograph see the betaken. (1 mark)
- 5. One matter each of the following points mentioned: (4 marks)
 - Compact camera has an electronic viewfinder.
 - Compact camera can be seen as an untrue, less accurate representa
 - DSLR viewfinder works through the use of a pentaprism and dichro
 - DSLR viewfinder is the same image that the sensor sees.
- 6. A zoom lens is a camera lens where the user has the ability to adjust the
- 7. One mark for each of the following points mentioned: (4 marks)

Lens Type	Advantages	
Zoom	 User can change the focal length and, therefore, the perspective Takes up less space and reduces the need for a number of lenses 	LowerDecreaSmalle
Prime	Superior image qualityLighter in weightWider aperture and depth of field	Only oUsuall

- A camera sensor is a device that's used to read the amount of light with
- In a CCD sensor the charge is transferred in columns down the chip and row of the chip, where an analogue to digital converter converts the charge (2 marks)
- 10. No marks are awarded for the student's opinio which sensor is better awarded for providing three valid advantages for three disadvantages for the student's opinio which sensor is better awarded for providing three valid advantages for three disadvantages for the student's opinio which sensor is better awarded for providing three valid advantages for the student's opinio which sensor is better awarded for the student's opinio which sensor is better awarded for providing three valid advantages for the student's opinio which sensor is better awarded for providing three valid advantages for the student's opinio which sensor is better awarded for providing three valid advantages for the student's opinio which sensor is better awarded for providing three valid advantages for the student's opinion which is a state of the state
- 11. ISO controls the sensitivity and sensor. (1 mark)
- 12. One mark for each section economics wer: ISO, shutter speed and aperture. (3 marks)
- 13. Decree ISO setting and then adjust the shutter speed and aperture in expo e. (2 marks)
- 14. The red-eye effect is an abnormality caused when the light of a camera retinas of the photographic subject. Due to the speed of the flash the puto constrict and restrict the amount of light entering the eye. (2 marks)
- 15. One mark for each of the following: (2 marks)
 - Fill flash is needed in any circumstance where there are unwanted photographic subject.
 - Aims to exposure the dark-shadowed areas.

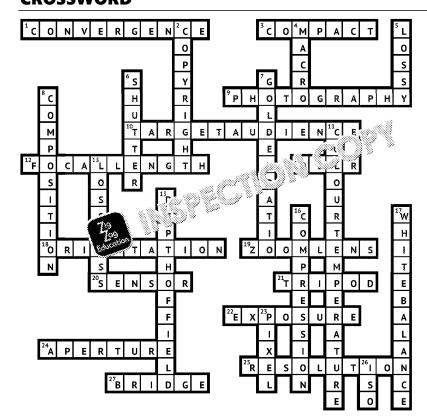


- White balance controls the camera's interpretation of white depending within the image. (1 mark)
- 17. The position of the sun within the sky. (1 mark)
- 18. Any reasonable risk of damage or loss of quality should be awarded the likelihood of motion blur resulting from camera shake. (1 mark)
- 19. To stabilise the camera in order to take photo or videos where handheld
- 20. Mark awarded for one of the following (1 mark):
 - File format choice
 - Image quality setting
 - Image resolution
- - Lossy compression aims to remute interest by discarding some
 - Lossless compression with the reduce file size without any reduction
- 22. One marker of the rollowing: (4 marks)
 - •
 - Ex Education
 - Sensor size
 - Lens
- 23. Mark awarded for any genuine and realistic risk to equipment or crew, sweather conditions. (1 mark)
- 24. Controllable environmental factors such as lighting. (1 mark)
- 25. The constant movement of people. (1 mark)
- 26. 1:10 (1 mark)
- 27. To allow the photographer to show different perspectives to the audien
- 28. Composition is defined as the overall design, and the method in which a
- 29. One mark awarded for each answer: (2 marks)
 - Draw attention to a specific part or element of the image.
 - Initiate an intended thought process.
- 30. One mark for each of the following: (2 marks)
 - By providing a continuous lead from the foreground to the backgrown and perspective.
 - Can lead the viewers to a central subject where the lines converge, importance.
- 31. Viewpoint refers to the angle and position that the properties is facing to the second se
- 32. Depth of field describes the amount of the mean that is in focus. (1 marks
- 33. One mark each for the following 1 narks)
 - Optical zoom is the physical movement image as the physical movement image.
 - Of the coun allows the photographer to gain a closer perspective significantly degrading the quality of the image.
 - Digital zoom is a process whereby the pixels of a section of the ima on an area.
 - Digital zoom leads to significant decrease in image quality due to to pixels are stretched out to cover a greater area.
- 34. SD card (1 mark).



- 35. One mark for each of the following: (4 marks)
 - Using an SD card reader
 - Using a USB cable
 - Bluetooth
 - Wi-Fi
- 36. Version control describes the process of saving different versions of a dits development. (1 mark)
- 37. A backup is a copy of files that is used as a safeguarding tool to ensure is lost, edited or damaged. (1 mark)
- 38. A brief is important as it allows you to clearly document the wants and ensuring that the project moves in the right direction and that scope creating the state of the st
- 39. One of the following answers (1 markin)
 - Any scenario in which and a least on the design is fundamentally characteristics.
 - The delay of a *3
- 40. Client energy are the needs and desires set out by the client with
- 41. One makes each of the following answers: (2 marks)
 - Provides the opportunity to gain feedback.
 - Can plan contingencies and consider alternatives.
 - Can check if the idea is suited to the brief and the client's requirem
- 42. A trial layout aims to show how the final product will look before it's product developer to gain feedback and make changes. (1 mark)
- 43. Copyright is an exclusive legal right of the creator to duplicate, license and
- 44. When you have had an input in its creation. (1 mark)
- 45. 70 years after the death of the creator. (1 mark)
- 46. One mark for each of the following: (2 marks)
 - Trademarks
 - Patents

CROSSWORD





A Camera Framing

T	December 11	
Type of shot	Description	
	Shows a large amount of the scene to establish the	
	general location of the action.	
-		
Edic		
Long shot		

Full shot		
	Contains a view of the character from the waist up, it	
	allows the viewer to see the character's face and body	
	language more clearly.	
	angaage more elearly.	
	It also allows them to closely soc allower with	
	It also allows them to clearly segal each eraction with other characters.	
	other characters.	
Edu	Ration Committee	
	er .	
	Includes the face and shoulders of the character.	
Medium	Allows the viewer to see the character's emotions	
close-up	while still being able to see the background.	
	The same sering asie to see the background.	
		1



Type of shot	Description	
Close-up	5-33-1 - 1-1-1	
Close-up		
	As the name suggesting a very specific part of the	
_	characis sec	
	used to create an intense mood and draw attention	
	to a specific part of the subject's face.	
	, so si siposino pano si sitto suo, cono	
Over the		
shoulder		
shot		
	This shot aims to be from the view of one of the	
	characters, used in order to make the audience feel as	
	if they are part of the scene.	
Con-		



B Client Brief

Client Information	
Contact	
Project	
Project Information	
Requirements and Restrictions	
Objective	
Target Audience	
Design Problem	
Key Dates	
Budget	
c Z	
Additional Information	



C Location Recce Production title: Crew: Location: Date of shoot: Date of recce: Local condition: No ☐ Yes ☐ · Any known problems? If yes, please detail and drag source Aid needed? If yes, please detail name, No ☐ Yes ☐ address and contact numbers No □ Yes □ for each person/organisation No ☐ Yes ☐ Permission needed? Protective clothing needed? If yes, please detail Shots: No ☐ Yes ☐ Appropriate shots isolated? No ☐ Yes ☐ Any obstructions? No ☐ Yes ☐ Easy to reach and safe? Requirements: Power available? If no, please detail alternative No ☐ Yes ☐ arrangements No ☐ Yes ☐ Lighting appropriate? No 🗆 Yes 🗀 If no, please detail alternative arrangements Sound equipment Anticipated problems No 🗌 Yes 🔲 Picture, No 🗆 Yes 🗆 People No ☐ Yes ☐ Other? Other considerations: Security considered Welfare considered (transport, food, first aid, etc.) Set dressing required Props required



Location Details Location address: Contact name: **Emergency Services** Police: 999 (Emergency) Hospital: . 101 ext. (Local) **Power Problems** No. of power outlets: Location of circuit breakers: **Lighting Details** Existing light sources:



COPYRIGHT PROTECTED





Additional light required:

Location Sketches



1	D	Ris	k.
	Pro	duct	io
	Dat	e of	s
	Loc	atio	n:
	Dat	e of	ri

D Risk	Assessment
--------	------------

Production title:	

Date of shoot:

Location:

Date of risk assessment:

T.	Persons who may be harmed	Property which may be damaged
Education		

COPYRIGHT

