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

# Unit 5: Digital Publishing Production



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



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# **Contents**

Thank You for Choosing ZigZag Education	i
Teacher Feedback Opportunity	ii
Terms and Conditions of Use	iv
Teacher's Introduction	1
Aim A - Digital Publishing Opportunities	2
What are digitally published products?	2
How are digital publishing products used?	
Where are digitally produced products published?	∠
Traditional printing and publishing technology and techniques	5
Publishing in the digital age: technology and techniques	8
Combining images, texts, graphics and interactive elements in digitally published products	10
Aim B – Use of digital publishing technology and techniques	11
Acquisition of digital media	11
Digital tools to import materials	12
Using digital tools to produce digital publishing material	14
Naming, logging and storing digital materials correctly	19
Aim C - Producing Material for Digital Publication	20
Develop concepts for a digital publishing product	20
Pre-production for a digital publishing product	25
Production of a digital publishing product	26
Unit 5: Digital Publishing Production – Practical Task	28
Unit 5: Digital Publishing Production – Checklist	30
Unit 5: Digital Publishing Production – Crossword	34
Answers	35
Questions	35
Crossword	38
Additional Worksheets/Templates	30

# **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 5: Digital Publishing Production*.

It contains information sheets containing all of the key theory for each Learning Aim, in the same order as the Unit 5 specification. Interspersed throughout the theory are objectives, key terms, questions and tasks.

**Before you start:** Two of the tasks in this resource require learners to load certain images; a zip file containing these images can be downloaded from <a href="mailto:zzed.uk/BTEC-Unit5">zzed.uk/BTEC-Unit5</a>

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, edit and evaluate a digital publishing production.
- 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 36–39. *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.

# Free updates

Register your email address to receive any future free updates\* made to this resource or other Media resources your school has purchased, and details of any promotions for your subject.

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\* resulting from minor specification changes, suggestions from teachers and peer reviews, or occasional errors reported by customers

# Aim A – Digital Publishing Oppor

# **Objectives:**

- ✓ To know what digitally published products are and how they are used.
- ✓ To understand the progression from traditional print material and met impact upon the production, distribution and demonstrational process

# WHAT ARE DIGITALLY PUBLISHED PRODUCTS

A digitally published product is any kind of free that was once solely product is now primarily or a law or a lay released in the digital domain

A numbe<u>r of example size</u>:

- A papers: This mainly refers to the release of newspapers for on an e-reader, such as those found on mobile phones, tablets and dedicated e-reading devices. They can be produced in two format
  - an exact copy of the physical paper available in a digital form that replicates the turning of pages, much like a physical boo this is normally a chargeable service.
  - Apps and websites that provide news stories, articles and oth optimised layout for digital devices – this is normally a free s that its chargeable counterpart.

Overall e-newspapers offer an additional advantage over tradition digital audio-visual content can be easily embedded rather than reseparately find it.

- **E-magazines:** These follow the same principles as e-newspapers; however, there are a large number of e-magazines that are not available in a traditional printed format due to the opportunity of easily creating an online news presence.
  - They are normally distributed through emails in the form of newsletters, e-books and leaflets. They can also be displayed using **HTML** in a traditional website format and flash versions that feature page-turning animations.
- Adverts: Adverts are traditionally published sters, flyers, billt publications such as newspapers. Digital visions can be in a wide image, video, animation and a land also include innovative in quizzes and games.

An advanta and digital publications is that they allow the production of the possible if it was static, and also aim to draw the a

- And CD covers: These are now generally produced or edited use and distributed digitally with the product. With audio albums and in embedded within the file so that the user can always see it when page 1.
- Flyers and leaflets: Although prominently featured online through social media platforms, traditionally-printed flyers and leaflets are events and services the digital format is simply uploaded onto the services of the

# 



- Training material: Traditionally made available in visual and textbased formats; however, digital versions are now offered as audio visual guides that are useful in work situations where there is a ne to visually demonstrate a situation rather than explain it on paper
- **E-books:** An e-book is a digital publication of text, images or both that is intended to be read in the same format as a traditional bocon a computer or other electronic device, e.g. an e-reader.

  An e-reader is a purpose-built device intended to display and layoutext in an optimised way for the display size. However, e-books can be read on most electronic devices such as tablets and smartphore.

# Questions:

- 1. What is a digitally product? (1 mark)
- 2. Suggest an color of an e-newspaper over a traditional prints
- 3. No he have ways that e-magazines are distributed and display

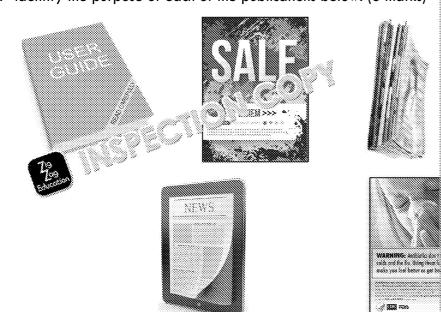
# HOW ARE DIGITAL PUBLISHING PRODUCTS U

Digital products that are published are used for a variety of purposes with sectors, sometimes to gain or entice an emotion or reaction from the aud

- **To inform** These products aim to provide the audience with use
- To educate Presents information in a way that intends to be eas
- To entertain Displays media that aims to keep the viewer amus
- Market/promote a product Advertises a product or service in a f
- Promote an event Displays information about an event for an all
- Provide advice or support These products provide important inf
  health guidance.

# **Questions:**

4. Identify the purpose of each of the publications below: (6 marks)





# WHERE ARE DIGITALLY PRODUCED PRODUCT

Digital publishing products can be published in a variety of ways, for example 1.

- Online over the Internet where they can be made available to view download, and thus open to be transferred. Some products such a books are sometimes only available once a fee has been paid, who others such as album artwork are included within products.
- E-books that are published are usually offered within the webstor the device used. However, they are also widely available online are be viewed on other digital devices other than specialised e-reader. There is an extensive range of websiter in other online sources download e-books both for free despurchase.
- Products designated or spane devices (mobile phones and tablets mostly compared exercises a wide range of digital devices that feature to had external data.
- Deadly produced products can also be stored electronically in a and depending on their use viewed on most digital devices. The final network
- Digitally produced products can also be printed and then displaye traditional manner.
- Some products are specially created or adapted for use on games
   TV screens. These products are obtained through the Internet or one

# **Questions:**

- 5. What is the main form of distribution for digitally produced prod
- 6. What is an e-book? (1 mark)

# 



# TRADITIONAL PRINTING AND PUBLISHING TAND TECHNIQUES

'Traditional publishing' describes methods by which a work is physically paid of computer technology – as is the modern method used to create a paway.

# **Techniques**

There are two main families of printing techniques: intaglio and relief.

Relief printing means that the design and ink are the comprinting block; these sections are transferred to the resultant surface after pressure has been applied.

In intaglic intimes, mage is cut into the printing block surface; this recess I was and any excess is removed. The design is transferred to the surface pressure is applied.

**Etching** is a printing technique that utilises a copper plate coated in an ac

- 1. The design or image is scratched into the copper plate using an e
- Once finished, the entire plate is then dipped into an acid that dismetal is exposed where the acid-resistant material was removed
- 3. The remainder of the material is removed and the plate covered in grooves form the overall design.
- 4. The leftover ink is removed and the plate is put through a printing other material this causes the print from the copper plate to train

**Linocut** is a method of printing where a design is cut into a sheet of **linol** and printed onto another surface such as fabric or paper.

- The design is first cut into the lino and then rolled over with an ir
- The lino is then pressed (by hand or mechanically) onto the desire image of the raised areas will be transferred.

Another printing method is **screen-printing** which is commonly used to printing

- A mesh is first attached to a square frame which is placed over a sand the printing surface.
- Ink is poured onto the mesh and ever to build over the stend squeegee.
- 3. When the screen and sie count lifted from the printing surface the substance counting added in order to increase the durability of

**Lithogra** a method of relief printing.

- 1. A raised design is produced on a printing plate.
- 2. The plate is then first coated in water and then ink. The ink only sthat are not wet or saturated with water the raised parts of the
- 3. The printing plate is then attached to a roller where the design is paper as it's fed underneath the roller.

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# **Questions:**

- 7. What are the differences between intaglio and relief printing tech
- 8. Describe the process of printing with linoleum. (2 marks)
- 9. Using the information provided, categorise the following printing intaglio printing: (5 marks)
  - Etching, Linocut, Lithography, Letterpress and Rotogravure.

# **Technology**

**Letterpress** printing is one of the oldest form of rolling. It is a technique of relief printing that use thing press to produce a design onto a surface.

There are a sypes of printing devices used in letterpress printing press and rotary press.

Using a rotary press makes it possible to print onto a continuous roll of paper, which was done in the past when newspapers were printed.

A platen press uses two surfaces: the bed and the platen. The platen is a smooth backing for the paper and the bed holds the raised plate to be printed.

Within this method a surface plate with the raised letters or design is inker of the paper. The surface plate can be made up of various blocks from a latypically made from metal.

When the plate is pressed into the paper the force of the press can result in the resultant print having an embossed appearance. For this reason this method of printing is still used by those who value the effect and historical nature of hand-made prints.

In **rotogravure** printing there are two cylindrical rollers positioned one above the other. The image is etched into a cylinder plate attached to the lower roller; the upper roller is smooth, and paper is fed in-between them.

The lower roller is partially submerged within a pool of ink; as it rotates, excess ink is removed using a doctor blade a runs along the plate surface before being presse in the paper.

Docto Blade

Ink Founs

# COPYRIGHT PROTECTED



# Questions:

- 10. State the names of the two printing devices within letterhead printing
- 11. In rotogravure printing, which roller holds the image to be printed

# **Printing**

A **photocopier** is a machine used to create copies of documents and image xerography.

A photocopier works through a number of stages:

Key ✓

- 1. The user places the document face-down onto the glass of the copier.
- 2. The document is then scanned by a bright light. Light reflects from the document, although more light reflects back from the black (inked) areas.
- 3. A 'shadow image' of the document is for any the photoconducts component that reads and measures life intensity. The photocon rotating conveyor belt could be a chemical called selenium.
- 4. As the converge water it carries the 'shadow with it; a drum filled with ink coats to with small pieces of ink called **toner**.
- 5. Due to an electrical charge given to the toner, it sticks to the 'shadow image' which creates an inked image of the document being copied.
- 6. A sheet of paper is given an electrical charge and fed towards the conveyer belt.
- When the paper is near to the conveyer belt holding the ink, the electrical charge causes the toner to transfer onto the paper.
- 8. The paper is then pressed through two hot rollers that infuse the ink onto the paper before it comes out of the photocopier.

The tech

Originally
his inve
compa
duplic

There are two main types of printers – laser and inkjet – that differ in the transferred to the paper and the type of ink itself.



A **laser printer** is a non-impact printer, photocopier, it uses electrical charges. When a document is sent to the printer an image of the document and then drelectrical charges.

The drum as in jud in toner once it has the judges in the form of the docume and steep and attained pressure.

Within a **t printer** there are a number of cartridges containing ink. The printer head is a component that mixes and releases the ink using a number of small nozzles. The printer head moves across the paper as it's funnelled through the printer and ink is sprayed from the nozzles onto the paper, forming the letters and images.

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The main differences between inkjet and laser printers are:

- The type of ink used Toner is a powdered form of ink while the liquid, meaning that it requires a little time to dry. Toner also gen ink which means that it's cheaper to run over time.
- Type of paper used Because inkjets print with wet ink some portypes of paper, such as those containing fibres, are unsuitable as the ink can bleed or smudge along the fibres. Laser printers, however, don't suffer from this problem as they use toner and can, therefore use all types of paper.
- Cost Inkjet printers are generally cheap in price, laser printers as not; although, due to the cost and frequency by juying new ink cartridges it can work out cheapents on the laser printer if a number of prints are to be a laser printer.

# Que s:

- 12. Some advantage and two disadvantages of inkjet printers. (3)
- 13. What's the difference between toner and ink? (2 marks)
- 14. Explain the process that bonds toner to paper in a photocopier. (3)

# PUBLISHING IN THE DIGITAL AGE: TECHNOLOGY

# **Less printing**

Within this digital age of instant and global communication there is invar

Due to the prevalence of computers, smart devices and fast digital commbroadband, it makes more sense for certain formats to become more popularinted counterparts.

One example is the use of email in comparison to printing and sending a document (for example bank statements); there are a number of benefits such as the ease and speed of automated emails compared with the time and costs involved in printing and distributing the documents. Paperless systems also bring obvious environmental benefits.

Using adverts as another example, online advers of generally cheaper for individuals and organisations to take the ham raditional printed ones. Furthermore, they can be specifically allored and aimed towards certain people by using data of a peach engines.

Cost is land nother factor for magazine and newspaper publishers' enth subscription versions of their newspapers – it omits the costs and efforts recycling unsold papers, printing and distribution.



# **Desktop publishing software**

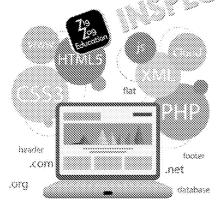
Desktop publishing software can best be described as a type of application that helps the user to create and layout documents – it is used to produce text and image pieces that are similar to, or greater than, the works created by traditional typography and printing methods.

Materials that are created using this type of software range from menus and flyers to posters and promotional displays.



Α

Desktop publishing software is particularly set for projects that need in themes such as flyers and book! all bugh it can also be used to format such as magazines.



# Multi-media capture and int

Within digital products such as online magazines, it's possible to fully integra external websites and content with rela

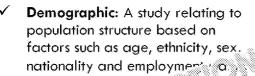
Most online video libraries such as You embed videos in any HTML-supported code to do so. Hyperlinks are also supapplications and publications.

# **Advantages of digital publishing**

There are a number of advantages to modern digital publishing methods.

Audience reach is one of the main advantages of using digital publishing opportunity to reach global markets and audiences for content. This is papublishing niche products, as it means that a product that would have have exposure in traditional publishing has the opportunity to be noticed by a

# Key term



For example, a shop selling horror in a town of 1,000 gain much interest. Howe contained the same productions all market of millions likelihood of interest increase.

Conventional publishing there are liated savings when traditional publishing techniques are exconsumers to buy products such as books from their smart devices mean Additional factors of devices such as portability, screen size and resolution content can be shown in a comparable quality to that produced using tractions from location to location.

With devices and computers almost constantly connected to the Internet, for information to be updated in real time; for example, news articles can obviously isn't possible with a newspaper.



# COMBINING IMAGES, TEXTS, GRAPHICS AND ELEMENTS IN DIGITALLY PUBLISHED PRODUC

The relationships between the elements within a product are usually closerelated. Within a text-based product all the text will relate to each other; remains true with the addition of other elements such as graphics, images, audio and video.

Text is sometimes added to other elements and media in order to aid the viewer's understanding of the product in situations when the principal element – be it video, audio or simage – isn't deemed to be clear and understandable to he audience.

One such example is a vide critical arroreign language where subtitles are added in a derior the viewer to understand.

Interacti responsive elements can also be added to digital publications, although mainly for entertainment purposes; for example, questions the readers' knowledge upon a certain subject or topic.

# **Questions:**

- 15. What is desktop publishing software used for? (1 mark)
- 16. State two advantages of digital publishing for consumers. (2 mark



# 

A.



# Aim B – Use of Digital Publishing Technolog

# **Objectives:**

- ✓ To understand how digital assets and materials are sourced and importe
- ✓ To be able to identify a variety of digital tools used to produce digital p

# **ACQUISITION OF DIGITAL MEDIA**

# **Generating material**

Digital material such as photos, video, audic gi mais and text can be created hardware peripherals or using addition. Levices and then transferring the

Generating text receive in thing more than a computer and keyboard – year than a computer a computer and keyboard – year than a computer a comput

Audio can be digitally created using a music production application that a synthetic instruments. It can also be directly inputted and recorded onto instrument using a microphone and audio interface.

Digital images and graphics can be created by:

- By taking an image using a digital camera. Most cameras allow the control and change certain properties that can impact quality such exposure value and resolution
- Using a graphics tablet, this is a computer input device that allow images that are then digitised and inputted onto the computer.



Using specialised software to draw and edit images, shapes and not types of software it's usually possible for the possible for the methods of producing graphics.

They also feature a number of the sand filters that can be used

Videos and other manages can be created by:

- viseo camera, as most cameras and smart devices such as leadility to record high-quality video. It may also be possible computer or laptop using an inbuilt or camera accessory, although for some circumstances.
- Using specialised software to draw and animate still images, shap either 2D or 3D.

# 



# **Sourcing material**

Not all materials and assets need to be created. It is perfectly acceptable to person, provided there are no copyright restrictions.

The Internet remains an excellent source of information as advanced search requirements can all be specified. Internet libraries also exist where users for different uses. When sourcing material online it's important to ensure are suitable for use.

# **Importing material**

Images can also be found offline, as scanners and cameras provide the abscomputer. For good measure, it's best to source at the largest dinneed to scale them. This is particularly in politary with bitmap images as the scale than the scale that the scale than the scale that the scale than the scale that the scale than the scale that th

Images for print should be source and minimum of 200-300 dpi to main



- 17. State two methods by which images or graphics can be created.
- 18. 'The Internet remains an excellent source of material and assets.'

  Suggest a reason for this sentence. (1 mark)

# **DIGITAL TOOLS TO IMPORT MATERIALS**

# **Scanning**

A scanner is an electronic device that is used to capture graphic images and documents on a computer, thereby converting them into the digital domain.

When scanning images, in particular photographs, it's important to scan in documents at a minimum of 300 **dpi** 

(dots per inch) as this ensures that the images will retain sharpness and quality when displayed on a digital display.



# Key term

DPI: a calculated can fit is of imaging higher to and de

### File transfer

File transfer describes the movement of file and data between digital informetwork or connection. A wired of file and data the Internet allows data downloaded worldwide of hours as a source to import materials for a part of the control of the con

There a wyless communication methods used to transfer data betweer es; Bluetooth is one such example – a telecommunications specification that allows data to be sent and received easily using a short-range wireless connection.

Another method of short-range wireless communication is NFC (Near-field communication) that allows users of smaller devices such as mobile phones and tablets to transfer small amounts of data by moving devices closer to one another.

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### **File formats**

A file format is a method in which image information is stored (or compress

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

There are a number of different file formats used for storing image data depending on its use, and the types supported by a computer can vary depending upon the software installed on it.

The most common image file formats are described below:

- TIFF Tagged Image and publishing industry, and the layered can be stored in a TIFF file and it employs a lossless compression method.
- JPG Joint Photographic Experts Group (JPG) is a file type that wa photographic images and uses a lossy compression. It is commonly digital cameras and displaying images over the Internet.
- GIF Graphics Interchange Format (GIF) is widely supported onling simple animations. However, GIF only supports up to 256 distinct replace colours outside this palette.
- PNG Portable Network Graphics (PNG) was originally developed colour channels, full transparency and lossless compression. Although support animation.
- BMP Bitmap (BMP) is used for any type of bitmap image. It does
   TIFF and results in very large files; it also uses a lossless compres
- PDF Portable Document Format (PDF) is a format used to captuil document, including images and text. Within a PDF the text can be highlighted and copied although it is not easily edited.

Examples of PDF publications include digital magazine articles, binformation/training documents.

DOCX - Microsoft Word Open XML Format Document file Office Office Office Open SML Format Document file Office Office Office Open SML Format Document file Office Office Office Office Open SML Format Document file Open SML File Open SML File Open SML Format File Open SML File O

# Questi s:

19. E an advantage of storing an image in a JPEG format in co

GIFF

- 20. Describe an advantage of using lossless compression and suggest user would prefer to work with this compression method. (2 marks
- 21. Using worksheet (A), compare the following file types:

TIFF PNG GIF

Key ✓

> ti ci



## **USING DIGITAL TOOLS TO PRODUCE DIGITAL PU**

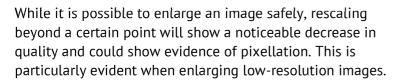
Most desktop and image processing applications feature autocorrect tool automatically adjust certain settings such as colour and contrast to impro-

At times this can be beneficial, and actually develops and improves the in results can look strange; therefore, it's usually best to learn how each set manually manipulate the image.

Listed below are a range of tools and techniques used within digital publ

# Scaling

Scaling is a tool that enables an image or show to be resized – from a reference point, volume or specified to the object by dragging it outwards or should be noted that a company the image size generally has a process of the larger the file size.





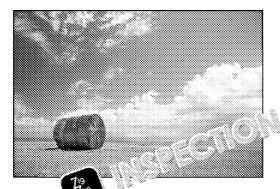
### Shear tool

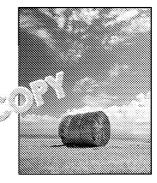
The shear tool is used to skew an object horizontally or vertically to give impression of depth, dimension and perspective.

# **Cropping**

Cropping an image involves cutting an image down to a specified section, areas. You may want to crop an image to fit it to a specific dimension or to Sometimes cropping involves trimming away a little detail around the edge component of an image and discard everything else.

Cropping an image does not change the resolution or image quality; it only





The imagive shows an example of cropping accompanied by the symbol applications.

### Task:

Using a desktop publishing application, open the file 'Politicians.jpg'.

Using the scale and crop tool, enlarge the image and remove the man edited image as 'Politicians\_cropped.jpg'.



# **Brightness**

The **exposure** of an image might not always be correct. It could be underexposed by appearing too dark, or overexposed by being too bright. The brightness/contrast adjustment enables simple changes to be made to the tonal range of the selected image. Increasing the brightness expands highlights and decreasing it expands shadows.

# Brightness/ Brightness Contrast

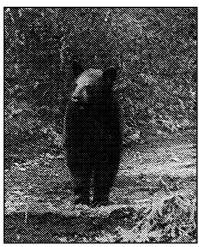
### **Contrast**

Contrast means the difference between two states, in this case referring to the difference between two **tonal** religions increasing the contrast makes dark tones date are light tones brighter.

Maximising the core was make the image dichromatic and core will do to osite, eventually making the image completely grey.



- √ Exp ap
- ✓ Tor





The photographs above show an example of adjusting contra

The photograph to the left is dark and unclear; by reducing the contrast a increases the amount of grey and appears more clearly.

Although it is possible to adjust both the brightness and contrast of an inshouldn't be considered as a substitute for a well and bed photo.

### Levels

Levels allows the user to fine tonal range and colour balance of an image to is to be tuning the intensity levels of the shadows, midtone injurights.

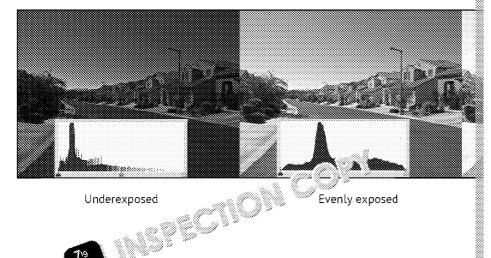
A histogram provides a graphical illustration of pixel distribution at each colour intensity level. Within a histogram, shadow detail is shown in the left part of the histogram, midtones are shown in the middle and highlights on the right.

By looking at a histogram it also gives the opportunity to see the overall tonal range and identify the need for tonal corrections.

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Look at the example below; an overexposed image has detail in the high has detail in the shadows and a properly (evenly) exposed image has detail



Underexposed

Evenly exposed



Using an image processing application, open the file 'Nature\_reserve. Attempt to evenly expose the image using the levels, brightness and contrast tools.

Does the final image look as expected? Has there been a deteriora of quality?

# **Colour adjustment**

Different image-manipulation software may have different tools and options for colour management, but all produce similar outcomes.

Colour balance is a measure of red, green and blue in an image and can be used to simply change the colour of an image or correct other mistakes; for example, correcting photos taken at an incorrect white balance.

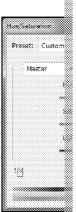
Another example is reducing the yellow of an incandescent light bulb to a neutral white colour; this is known a adjustment.

Adjusting the saturation all as the super to specify the colour intensity within the serie

Reducin aturation levels will result in a greyscale image. Increasing the saturation will result in a much more intensely coloured, and often artificial-looking image.

# Key ter

Whit defi the 🔇 app



# COPYRIGHT **PROTECTED**



# e content. In

# Page layout

Page layout refers to the margins and columns displayed within a document.

Margins are a visual border that provide a frame to the content and support the layout structure, in addition to supplying a 'resting place' for the viewer.

There are also other considerations for margins when the product is to be printed:

- Ensuring that an image frame won't cover so of the content. In need to be larger.
- If the print is to be bound fac when compiling a book, margin be considered.

Column sees of vertical boundaries that split a document and hele composition a document. The purpose of columns is to divide the document assets such as text can be arranged and measured accurately.

# **Image manipulation**

Most desktop publishing and image manipulation software works using layers. This allows an image to be compiled while keeping individual assets separate; therefore, effects and adjustments can be applied to specific parts of an image.

For example, adding a new text layer will mean that the text and image will remain separate, giving the user the ability to edit or delete the text without a corresponding effect on the underlying image.

These types of software will also feature their own native file format; allowing the user the ability to reopen and make further adjustments to the image while retaining the individual layers.

### **Text**

Text is a common element within almost all digital publications. Most so basic text facility, allowing the user to add their desired text to a docume additional styling to text, such as changing the colour, embossing or addi

The table below details some text functions we his most publishing software.

Text tool	Now the user to define a text field where tex
Text span	Adjusts the amount of space between each cha
Line sp (leading)	Adjusts the vertical space between lines of typ
Text warping	Distorts the shape of the text vertically or horispecify the amount of distortion and the degre
Text wrapping	Wraps text around an object so that the text fo outline.
Spell checker	Checks the spelling and grammar of text to en

# 



# Composition

**Composition** describes the layout of the overall image, and how it's used to influence the perspective or emotional state of the audience.

Looking at the image below you can see two elements of image composition: the 'rule of thirds' and symmetry.

# Key term

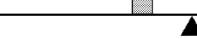
Compa constitu text an audien

Symmetrical balance is achieved by evenly distributing the visual elements.

This proving focus to the in the



To demonstrate how placement and positioning can attract the attention image of a scale below.



The elements are positioned unequally, and it's assumed by the view that and the scale would tilt towards the right. By composing the components viewer's attention is drawn to the right, and encourages the thought proc

### **Placement**

The placement of text and images is not only closely related to composit purposes such as being used to provide detail and explanation. Placemen combination with styling can also be used to increase the readability of tempercase, colour, boldness and italics can also lead a liece of text to have

### Task:

Using Create a new document.

Create gin and three columns – dividing the document into three

Now experiment using the text tool and the features mentioned to call Have you noticed how layers work?

# 



# NAMING, LOGGING AND STORING DIGITAL MAT

# **File naming conventions**

Naming files correctly makes them significantly easier to locate, such as within large folders. One method of naming a file is by using its description kitten called 'DSCN004.jpg' could be renamed 'Black kitten.jpg'.

File name: Black\_kitten.jpg
Save as type: JPEG (\*JPG;\*JPEG;\*JPE)

In addition to naming a correctly, the containing folder should als method and a containing folder and image with the current day, month and the photo e uploaded, e.g. 'Black\_kitten\_05042015.jpg' (5th April 201)

File organisation is important as it allows files to be found easily and avoideleted. This is particularly relevant if working within a team using a share of files.

# **Appropriate file formats**

It should also be noted that a file should be saved within a format that is the format and device it will be displayed on.

The table below lists some formats and compares instances of correct and

Format:	Correct use:	
PDF	Scanned documents to be digitally distributed without the need to change them. When preserving a document in which layout is imperative.	Docume edited.
AVI	When burning video content onto a DVD for use in a DVD player.	Stream
JPEG	Image files for use on the Internet.	lmage f printing

# **Archiving**

Archiving is the process of spirit placed in a safe area away from the complete placed on a CD and shard drive or memory stick, which is then clease safe placed and live is an additional safeguard, ensuring that files won't

# **Questions:**

- 22. State the reason why it's important to keep files and folders organ
- 23. Suggest one advantage of naming and storing files correctly. (1 m)

# 



# Aim C - Producing Material for Digital

# **Objectives:**

- ✓ To develop a concept for a digital publishing product.
- ✓ To undertake the pre-production process.
- ✓ To produce a digital publishing product.

# **DEVELOP CONCEPTS FOR A DIGITAL PUBLISH**

# **Initial ideas development**

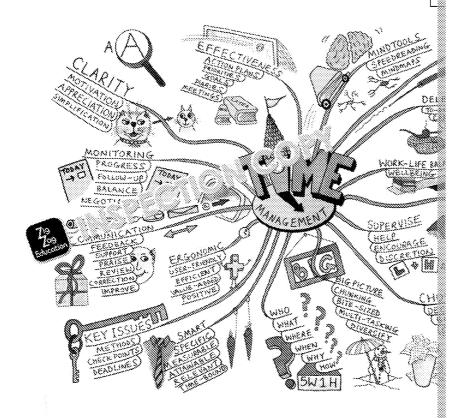
To develop and progress an idea or a light for a product there are a number structure of the structure of th

# Mind / \p.aer diagram

A spider is a useful method of generating ideas when created inc Within a group, every member should contribute words and ideas which a strength and relation to the central idea and written down; this in turn sh words, colours and images.

A mind map is described as an extension of a spider diagram; images and colours are also used to further represent the central idea. It could be thought of as a tree, where the centre is the main idea, thicker branches are subtopics and thinner branches are the finer details. The thicker branches should be drawn first and then diverge from the central text.

Spider diagrams / mind maps can be created by hand and then scanned digitally using a scanner. They can also be created on a computer using hardware and a software application.





### **Mood board**

In order to create a mood board first you must decide upon the central the mood board is based.

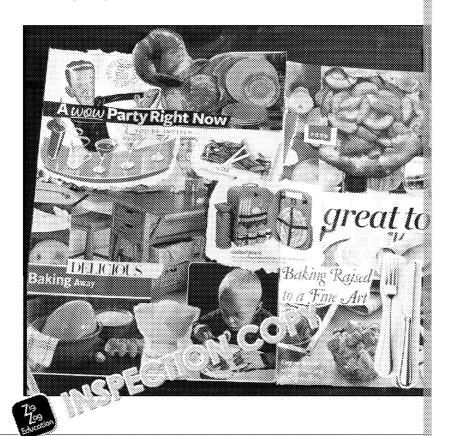
If compiling the mood board on paper then a wide range of source materinewspapers, magazines and material could be cut and pieces used within and images can be drawn for use. There are no strict instructions or restriboard, only that the things included are somewhat related or provide insp

### Task:

You've been employed to create a parter of your fine royal family. Crea about things you could include this your poster.

Digitall no a mood board may be easier due to the abundance of ir on the In the et. With a digital mood board it's also possible to provide an websites related to the topic.

Word-processing, presentation and image-manipulation software are all each be used to digitally compile a mood board.



# Questions:

- 24. What is the purpose of a spider diagram? (1 mark)
- 25. What is the purpose of a mood board? (1 mark)



### Research

It might also be necessary to conduct some research prior to undertaking idea, as this could lead to the further advancement and generation of idea.

There are two research methods: primary and secondary.

- Primary research describes research that is undertaken first-hand;
   interviews, observations or giving out questionnaires. This type of undertaking a project that has a small amount of previous research
- Secondary research involves gathering existing data and research conclusions. Examples of secondary research include looking up in in newspapers.

Data can be categorised into two a pull additive and quantitative.

Qualitative data is the major such as opinions and views that hold mean intervier to an ended questionnaires.

Quantitative data is statistical data that can be used to create graphs and usually collected from experiments and closed questionnaires.

It's usually most useful to use a combination of primary and secondary research methods that can gain both qualitative and quantitative data. When performing research for a digital media project certain research methods, such as focus group interviews, and the analysis of similar projects can hold some of the most beneficial value, as they allow you to see the type of end product and also understand what the target audience wants.



Examples of primary and secondary research sources are listed in the table be

Primary research sources	Seconda
Interviews	Academic re
Questionnaires	
Focus groups	
Competitor analysis	
Surveys	

## **Ouestions:**

- 26. Explain the difference we will primary and secondary research.
- 27. Identify one was a conditional research source. (2 marks)
- 28. P 1 a example of a research source and explain if it provide quantive results. (2 marks)

# 



# **Current practices and products**

Another method of idea generation is to look at similar products and currand strategic management; this is known as 'competitor analysis'. Competitor anal

In terms of current digitally published products that could be looked into media publications such as newspapers and magazines that can be freely such as posters and DVD covers that can be found using most search engine

# Consider publishing platform

When producing a digital produce is a portant to consider the platform onto which it will be seed to a fundamental shift in development

For text- content for mobile devices, the amount of text should be a factor to consider; with a smaller screen, a large amount of text will use a larger amount of the screen space and maybe even require the user to sort to continue reading. Additionally, this relates to the location in which the user will read the content, e.g. reading somewhere in transit such, as on a bus or train, would require the amount of text shown to be shortened or summarised, possibly with the option of reading it in full if desired.

Any product released across multiple platforms should also be fully responsizes change depending on the display size of the device used. This principals it means people using smaller devices such as mobile phones and tablet

With printed products there are a number of factors to consider such as in consequently, the quality of the image when it's printed), readability of teas where it's going to be displayed.

Lastly, the file format will need to be compatible across different devices. For example, text within a HTML web page and PDF is mostly readable ac devices; however, other formats such as ePUB (default format for e-books to install additional software before viewing.

### **Review initial ideas**

Although often overlooked when planning a project and modify them in light of the asources made available prove useful to present the idea of argueside individual and gain some an individual or membal and gain some which the product is aimed

Critical Grand self-evaluation can be thought of as processes that description of which are vital factors in this stage.

Here are some examples of questions you could ask yourself when review

- What are the overall aims of the product?
- Do my aims directly correlate to my idea?
- Is it appropriate for the publishing platform?

# 



The use of analytical and evaluative questions forces the user to form ans and reason.

Examples of analytical questions:

- How...?
- Why...?
- What are the reasons for...?
- What is the relationship between... and...?
- What are the possible solutions to these issues?

Examples of evaluative questions:

- What are the advantages or disadran faculor...?
- Is... clear or unclear?
- Is there supp പുരുത്തിന?
- pl Le for the project?

# **Trial layout**

A trial layout is usually the final stage of the design process – a type of vused to provide a realistic representation of the finalised project. It can the feedback and showcase a range of designs that are representative to the

A trial layout should take note of all the important design and usability faremember the following:

- Composition
- Layout
- Clarity
- Selection and use of colours
- Publishing platform and related considerations
- Target audience and demographic
- Fitness for purpose

# Key terms

Target of peop viewers e.g. stu

The content of a trial layout for a visual product such as posters usually i

- Images
- Graphics
- Logos
- Text

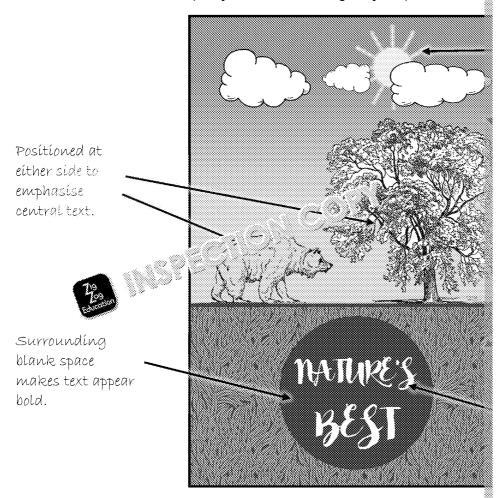
It can be designed by hand and wear some that the included content presented; it can also included an exactions with descriptions and justificate can then be digitary in mandware such as a scanner, computer, camer

Another is to produce a digital mock-up of the design using computer processing, publishing, image editing or presentation software.





Below is an annotated example of a visualisation diagram for a poster:



# **Questions:**

- 29. State the four pieces of content that can be included within a visualissian
- 30. Give two examples of computer application software that can be us (2 marks)
- 31. What is the purpose of a trial layout? (1 mark)

# PRE-PRODUCTION FOR A DIGITAL PUBLISHIN

Pre-production for a digitally produced product should include a portfolio have been used in preparation to develop the product concept.

A wide range of elements shall included:

- Screenshot: A smaller and inspirations found through the smaller charges of the project.
- ources such as images, videos and text that will be used w sourced from external locations. Template (B)
- A location recce (and associated risk assessment) if any film produndertaken as part of the project. Template ©
- A 'shot list' detailing the photographs taken, if applicable Templo
- List of any equipment or props used in the creation of the product
- Mock-ups of the product that could display to others the finalised computer-generated images, thumbnails and annotated sketches.



# PRODUCTION OF A DIGITAL PUBLISHING PRO

# **Gathering and preparing materials**

The first stage when producing a digital product is to gather together all resources that you intend to use throughout the project.

Any text that will be included should first be written, or sourced, and che its accuracy using a spell checker or similar software. Factual information statistics, has to be cross-checked against its source to ensure its reliabilishment.

The same principle applies to tables, graphs and the stables hat display factual as it's vital that any information presented as consistive fact truly is.

Images to be included with the product that are not sourced should be digitisation of a with rusing image-manipulation software. It should be prepare that are not sourced should be prepared to the correct format for use.

Interactive elements to be included with online and electronic publication language appropriate for their use and display platform. Most elements comprovide a direct link to the media source.

The collection of material can then be edited in terms of size, readability purpose.

 When sourcing interactive elements such as video and audio files, legal concerns such as copyright and intellectual property rights.

# **Combining materials**

Although quality and aesthetics are subjective in nature, there are still de be given attention when combining materials for the product design and factors such as the readability, text size and the quality of images, and ae symmetry, the psychology of colour and the placement of materials and is

Materials such as images and video should be positioned in an inclusive virelated text; therefore, the viewer can easily see what they're related to. Clearly displayed underneath the relevant image where they can be easily

The use of colour is also important as it can help to convey emotion, thou audience. When choosing colours it's important to the about colour psyclaudience.

Common examples included

- Pint as 3 100 maily feminine colour, used to symbolise love an
- sine colour of the ocean and the sky, is seen as constant in a creates a sensation of trust and security. It's commonly used is communication and business.
- Red can signify energy, warning and urgency. In the UK, most red prohibitive and give orders.
- Green, as the omnipresent colour in the natural world, often symbor health.
- Orange can represent warmth, energy and friendliness.

# 



RED VIOLET

YELLOW BLUE

GREEN

PILL and can be used stand out against the back

The chosen colours should also complement one another; it may be useful colours within a **colour wheel**.

White space describes the absence of the period can be used to draw the towards a certain aspect the making it stand out against the background. It text and increase read a flag.

# Questions:

- 32. Define 'composition'. (1 mark)
- 33. Suggest a reason why green is used as the colour for recycling an
- 34. State one way in which the use of white space could be used to g viewer. (1 mark)

The placement of interactive materials such as hyperlinks and audio clips product where it is still appropriate and easy to find, i.e. underneath contembedded within words – usually indicated from being underlined and co

Are you up for the challenge? If this job seems like somethin then you can contact us by <a href="mailto:emailto:emailto:mailto:emailto:emailto:mailto:emailto

Example showing how clickable hyperlinks appear when embedde

The intelligibility of text and images should be adapted for the sight range those with slight visual impairments; in this case the size and quality of the clearly understood by all. Images should all e of high quality shown to the audience.

# Publishing product and whiching platform

The product should so a for readability and interactivity on the platform publish to so to ensure that no mistakes were made during the product ality and usability.

With both images and text, the resolution in which they are displayed is a be tested across the various media where the product will be published. We of the text is also important due to potential intelligibility issues, as previous

Interactive elements such as applications should be tested not only for the speed of interaction – overly slow response times will lead users to become

# 



# **Unit 5: Digital Publishing Production –**

For this task you must plan, produce and review a digital media publication. learning outcomes and main tasks included within this guide.

## **Scenario** – The Town Times

The local newspaper of your town is in trouble; weekly subscriptions are down and the editor believes it's due to an increasing youth population who now use the Irac last a primary information source. The newspaper - The Town rames - currently has no online presence, although the puts links to online content within its articles.

The edi ts you to develop a digital newspaper that can be read across a wide range of devices and publishing platforms; however, he doesn't know much about the Internet and wants to know its potential when used for this product.

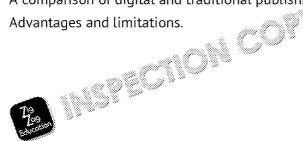
## Task 1 – Research

# → This task covers **Learning Aim A**

Within this task you are required to produce an illustrated report about the digital publishing methods. This is to be compared and contrasted agains within newspaper publication.

### You need to explore:

- Digital content that is published.
- How digitally published content is used.
- How content such as text, images, graphics, videos and interactive
- The platforms on which this digital content is displayed.
- A comparison of digital and traditional publishing methods.
- Advantages and limitations.





# Task 2 - Planning

# → This task covers Learning Aims B and C

This task entails the creation of a sample digitally produced product which demonstration to show the benefits to the editor – the sample product is

To complete this task, you should do the following:

- Detail how digital tools and resources are used to source, import
- Make use of digital tools to produce a sample product.
- Use a range of images, text, video, audio aring phics to produce showing how the digitally produced around will function.

### Don't forget:

- Version and the organisation and storage of digital assets.
- nsier options.
- Digitisation of materials.
- Appropriate file formats.

## Task 3 - Creation

# → This task covers **Learning Aim C**

Having researched the product, you will now develop the product that yo

It should also include:

- Different publication platforms.
- Justification of main ideas.
- Explanation of any elements changed from proposal.
- Annotated screen shots of the development phase.



# 



# **Unit 5: Digital Publishing Production**

# Learning Aim A: Know about digital publishing opportunities

Mark band	What is needed
Level 2 Distinction	Have you <b>compared</b> and <b>contrasted</b> the uses of a wide range of published products, giving a range of strengths and limitations?
Level 2 Merit	Have you clear <b>( ) p) ร</b> าม <b>ต</b> now digitally published products are
Level 2 Pass	Have you provided a <b>clear</b> description of the uses of a <b>range</b> of published products?
Level 1	Have you provided a <b>brief</b> description of the uses of <b>one to thre</b> published products?

Mark band	What is needed
Level 2 Distinction	Have you given a <b>clear</b> , <b>detailed</b> and <b>evidenced</b> assessment of t advantages of digital publishing in comparison to traditional m
Level 2 D	Have you provided a range of <b>detailed examples</b> ?
Merit	Have you <b>assessed</b> the advantages of digital publishing in comp traditional methods?
Level 2 Merit	Have you not be to three examples?
Level 2 Pass	Have you <b>described</b> a range of advantages of digital publishing comparison to traditional methods?
Level 1	Have you <b>outlined</b> one to three advantages of digital publishing comparison to traditional methods?

# 



Mark band	What is needed
Level 2 Distinction	Have you given a <b>clear, detailed</b> and <b>evidenced</b> assessment of himages, graphics and interactive elements are combined in a dispublished product?
Level 2 Merit	Have you <b>assessed</b> how text, images, graphics and interactive e combined in a digitally published product?
Level 2 Pass	Have you given a <b>clear</b> and <b>det il</b> description of how text, imagraphics and interactive (e) has are combined in a digitally pupped product?
Level 1	you given a <b>brief</b> description of how text, images, graphic interactive elements are combined in a digitally published prod

# Learning Aim B: Understand the technical requirements for digital aud

Mark Band	What is needed
Level 2 Distinction	Have you made <b>creative</b> and <b>innovative</b> use of tools to source as digital content?
Level 2 Merit	Have you made <b>relevant</b> and <b>effective</b> use of tools to source and digital content?
Level 2 Pass	Have you made <b>suitable</b> use of tools to source and import digita
Level 1	Have you made <b>bariants and</b> use of tools to source and impo content?

# 



Mark	What is needed
band	
Level 2 Distinction	Have you demonstrated <b>confident</b> and <b>comprehensive</b> use of dig for publishing production?
Level 2 Merit	Have you demonstrated <b>relevant</b> and <b>effective</b> use of digital too publishing production?
Level 2 Pass	Have vous วิจัก saated <b>appropriate</b> use of digital tools for pub ในเรื่อน?
Level 1	Have you demonstrated <b>basic</b> or <b>limited</b> use of digital tools for publishing production?

# Learning Aim C: Produce material for digital publication

Mark band	What is needed
Level 2 Distinction	Have you developed a concept for a digital publishing product timaginative and unique through wide-ranging and inclusive pla
Level 2 Merit	Have you developed a concept for a digital publishing product tinnovative and creative by undertaking both cetailed and clear
Level 2 Pass	Have you develow a a collect for a digital publishing product t appropries for the with an adequate amount of planning?
Level 1	Have you developed a <b>basic</b> concept for a digital publishing prowith <b>minimal</b> planning?

# 



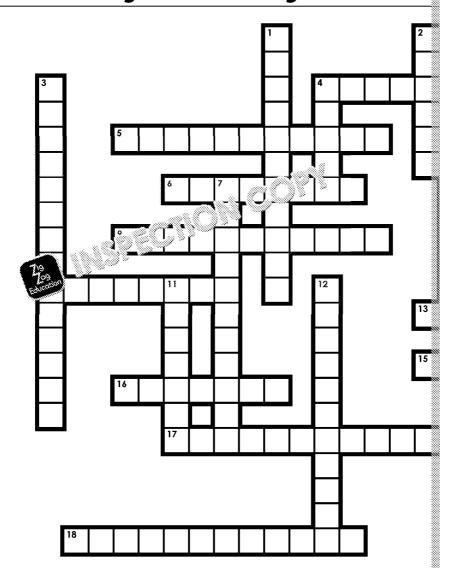
Mark band	What is needed
Level 2 Distinction	Have you digitally produced an <b>innovative</b> and <b>imaginative</b> pub product that shows <b>confidence</b> and <b>assertiveness</b> in the interpre brief?
. Merit	Have you produced a digital publishing product that is both <b>effe</b> creative and demonstrates a competent and knowledgeable into of the brief?
Level 2 Merit	Have you digitally 30 L a creative and effective publishing
Level 2 Pass	nave you produced a digital publishing product that is <b>appropri</b> and demonstrates <b>suitable</b> interpretation of the brief?
Level 1	Have you produced a <b>basic</b> digital publishing product that only <b>minimal</b> and <b>basic</b> interpretation of the brief?

# 





# **Unit 5: Digital Publishing Production**



### Across

- 4 The range of brightness within a photo. (5,5)
- 5 A spatial measure used to define the number of pixels that can fit into an inch. (4,3,4)
- 6 The amount of light within a photo, determined by the quantity of light reaching the image sensor. (8)
- The layout of assets that constitutes the overall image, such as text and image.
- A printing method where some surface; the surface has been applied. (8)
- 13 A co rearkup language used to creat pages. (4)
- 15 A compression technique which aims to remove unnecessary data from the image. (5)
- 16 A printing technique that utilises a copper plate coated in an acid-resistant material. (7)
- 17 A specific group of people who are the intended viewers or recipients. (6,8)
- 18 The process of defining colour casts, to ensure that the colour white in reality also appears white in the photo. (5,7)

### **Down**

- The process of representation the quality to s
- A printing met raised surface: surface once p
- 3 A printing met designs onto f
  - 4 A powder form
  - 7 A machine use documents ar
  - 8 A type of print
  - 11 A method of prints a sheet of transferred and such as fabric
  - 12 A study relating based on fact nationality and
  - 14 A compression size is reduced



# **Answers**

## **QUESTIONS**

- 1. A digitally produced product is any kind of product that was once solely format but is now primarily or additionally released in the digital domain
- 2. One mark for any of the following: (1 mark)
  - Additional multimedia content.
  - Can link directly to websites.
  - Option of interactive content.
- 3. One mark given for each correct ansv ും (എയുംജ്)
  - Email
  - E-book
  - L
  - H Parbsite
- 4. From left to right: (6 marks)

  to educate, to promote an event, to entertain, to promote a product, to inform
- 5. Online, over the Internet. (1 mark)
- 6. An e-book is a digital publication of text, images or both that is intended as a traditional book on a computer or other electronic device. (1 mark)
- 7. One mark for each correct answer. (2 marks)
  - In intaglio printing the image is cut into the printing block surface, and
  - In relief printing the printing block surface is raised.
- 8. Both correct answers required for full marks: (2 marks)
  - The design is first cut into the lino and then rolled over with an ink.
  - The lino is then pressed onto the desired surface where a mirror print is transferred.
- 9. One mark given for each correct answer: (5 marks)

Relief printing	Intaglio pr
Lithography	Etchin
Letterpress	Linocu
Rotogravure	

- 10. Both correct answers required for any marks: ( ) KS
  - Platen printing
  - Rotary printing
- 11. The lower roller to the smage. (1 mark)
- 12. 1 mark for one positive: (3 marks)
  - Weemik can smudge. (negative)
  - Ink tends to be expensive. (negative)
  - Certain porous papers are unsuitable. (negative)
  - The printers are cheap to purchase. *(positive)*
- 13. One mark for each point raised: (2 marks)
  - Toner is a powered form of ink.
  - Ink is in liquid form.



- 14. Toner is given a small electrical charge; the paper is also given an elect through the photocopier that makes the toner stick to the paper's surface.
- 15. Desktop publishing software is used to create and layout documents. It and text works. (1 mark)
- 16. One mark for each correct answer: (2 marks)
  - Global library of products
  - Convenience
  - Real-time information and updates
- 17. One mark each for any two of the following: (2 marks)
  - Using a graphics tablet.
  - Using specialised computer software...
  - Hand-drawn and digitised vsir q contact era or optical scanner.
- 18. One mark for any ുപ്പിowing: (1 mark)
  - Glandet a man worldwide reach.
  - Au search options.
  - Vasc amount of information.
- 19. One mark for each advantage: (2 marks)
  - TIFF files can be quite large, and memory constraints in digital camera needs to be low if possible.
  - GIF only supports a 256 colour palette; with photography this will likely replaced.
- 20. Both points required for marks: (2 marks)
  - The resultant image retains all the original data.
  - When editing or manipulating an image.

21.

Format	Common Uses	Advantages
TIFF	Images within the printing and publishing industry.	Lossless compression – retains maximum amount of image data.
JPG	Storing photos on digital cameras. Displaying photos on the Internet.	Small file size – ideal for web use and email. Widely supported on web.
PNG	Web development. Images also containing graphics.	Lossless can ession. Supports all transparency. Supports full colour palette.
ВМР	All imac s	Lossless compression. Displays realistically.
GIF	Simple animations.	Widely supported online. Small file size. Easy to create.
DOCX	Word processing documents.	Widely supported. Can include objects, tables, charts and formatting.

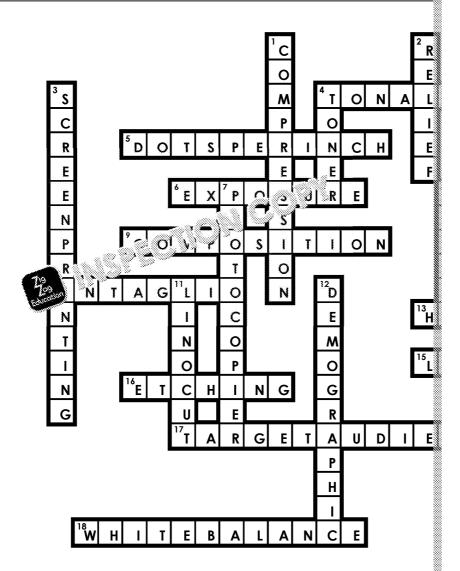
# 



- 22. Keeping files and folders organised makes them easier to find, especial (1 mark)
- 23. Using version control can reduce the likelihood of accidentally deleting
- 24. To help generate ideas. (1 mark)
- 25. One mark for each correct answer from: (2 marks)
  - Can be used as a visual tool.
  - Helps to assist in generating ideas.
  - Helps to gain a feel/look for the product.
- 26. Primary research has been undertake in section, while secondary researches people. (2 marks)
- 27. One marker: (2 marks)
  - The net as an electronic information source.
  - An me from magazines, books, newspapers, journals, reports or pulinformation source.
- 28. Answer must be one of the following mentioned within the resource (or source and another for the identification of the type of source): (2 marks)
  - Interview quantitative results.
  - Questionnaire can be either quantitative or qualitative, depending w
  - Focus group qualitative.
  - Survey can be either quantitative or qualitative, depending whether is
- 29. One mark for each correct answer from: (4 marks)
  - Images
  - Graphics
  - Logos
  - Text
- 30. One mark for each correct answer from: (1 mark)
  - Word processing
  - Image manipulation
- 31. To allow the viewer to visualise the end product and see the justification (1 mark)
- 32. Composition is defined as the contact as a leading; the method in which a pie
- 33. One mark for and the following: (2 marks)
  - A. L. io with health and the natural world.
  - Common al representation.
- 34. One of the following answers: (1 mark)
  - Provides emphasis for another image element
  - Increases readability

# 







# A Comparison of File Formats

File format	Common uses	Advantage
TIFF		
JPG [2]		
PNG		
ВМР		
GIF		
DOCX Educ		



# A Asset List

Asset	File name	Date Acquired	Resources	So
79 Edur				



Asset	File name	Date Acquired	Resources Required	Sc
79.00 Edward				



# **B** Location Recce

Production title:		
Crew:		
Location:		
Date of production:		
Date of recce:	***************************************	***************************************
	- 0	
Local condition:		
Any known proble     If very least including     supplies incormation)	No 🗆 Yes 🗆	
Aid needed?     If yes, please detail name,	No 🗆 Yes 🗆	
address and contact numbers for each person/organisation	No 🗆 Yes 🗆	
<ul><li>Permission needed?</li><li>Protective clothing needed?</li><li>If yes, please detail</li></ul>	No □ Yes □	
Equipment position:  • Any obstructions?  • Easy to reach and safe?	No  Yes  No Yes	
Requirements:  Power available? If no, please detail alternative arrangements  Sound equipment	No  Yes  No Yes	
Anticinal property of the Police of the Poli	No  Yes  No Yes No Yes No	
Other considerations:     Security considered     Welfare considered (transport, food, first aid, etc.)		



## **Location Details**

Contact name: ......

Telephone no.:

## **Emergency Services**

Police: 999 (Emergency)

Hospital: .....

101 ext. (l

## **Power Problems**

No. of power outlets: .....

Location of circuit breakers: .....

# 



# © Risk Assessment

Production title:	
Date of shoot:	
Location:	
Date of risk assessment:	

	Persons who may be harmed	Property which may be damaged
		#
		***
Edward		



# Shot List

Shot #	Location	Shot description	Crew
72			
Educa			
723 Education			



# **©** Prop/Equipment List

Shot #	Shot description	Prop	Ec
31100 "	Shot description	1100	
Education			
Establish			
And the second s			

