

<p style="text-align: center;"><b>ICT</b></p> <p style="text-align: center;"><b>Summer Holiday Homework</b></p> <p style="text-align: center;"><b>Year 9 into 10</b></p>
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**Complete this homework if you opted for ICT (NOT Computing GCSE).**

**Year 9**

**ICT option:**

You are going to write a report on the purposes and properties of graphics.

**Layout of your work**

You are to type it up in font “calibri (Body)” size 11. If you do not have access to a computer to type it up, please write up your report by hand.

Header: R082 Digital Graphics

Footer: Your name Page Number

Title: Understand the purpose and properties of digital graphics

**Why are digital graphics used** – In this section you will investigate the four main uses of digital graphics. This should be no less than a paragraph each; Entertain, Inform, Advertise, Educate. You also need to explain what the key features are and what makes them successful for this purpose.

**How digital graphics are used** – For each of the uses of graphics mentioned (Magazine covers, DVD covers, Adverts) you will need to write a detailed (point-by-point consideration) analysis how graphics are used/combined to create the final product so that it is appropriate for its purpose. You should use one example for each type of graphic to support your analysis.

**Colour** – Research psychology of colours, what do we associate colours with and how can the impact colour selection for graphics.

**Types of graphics** – Research what bitmap images and vector images are. You will need to explain the properties of each and how they are different in comparison.

<http://www.bbc.co.uk/schools/gcsebitesize/dida/graphics/bitmapvectorrev1.shtml>

Do not copy from a website, all work must be written in your own words.

**File Formats** – .tiff, .jpg, .png, .bmp, .gif, .pdf are the six main types of file formats which are used for digital graphics. Writing in pros you will need to find out:

1. What is the full name for the file type
2. Whether it is an open source proprietary file type
3. What are the typical usages of the type
4. Key features of the file type

**The properties of digital graphics and their suitability for use in creating images** – You will need to research and discuss the four properties of images. Each should be a paragraph and you may use one image to support your writing:

1. Pixel dimension
2. DPI resolution – What is it? Explain what dpi is used for images when used on the web

Explain what dpi is used for images for professional printing and why does it differ.

3. Pixels Per Inch – What is this and how can it impact on an image when it is displayed on a computer.
4. Quality – contrast, resolution, noise distortion
5. Compression settings

### **How difference audiences influence the design**

You will need to compare four different magazine covers one each aimed at men, women, children and teenagers as in the example below.

You will need to do a detailed review of the covers to show how they are similar to ensure that they meet their purpose, but different enough that they are appropriate for their target audience. Areas to

discuss:



- Composition
- Use of white space
- Use of colour
- Styles

This document will form the basis of your project for unit R082.