





Subject: IT Topic: Web Design and Content Creation

Summary of key information:

Types of Graphics		File size compression	
Bitmap	Bitmap graphics are made up of pixels. Each pixel is stored on the computer as a series of 1s and 0s. When you take a photo with your smart phone it stores the digital image as a bitmap.	 Lossy Compression Data is removed from the file to reduce the size of the file. The process cannot be reversed, data loss is permanent 	
Vector	Vector graphics do not have any pixels. Instead they are made up of lines and shapes. When a vector is enlarged the lines and shapes are redrawn; making them great for resizing.	 Increased compression introduces a greater reduction of image quality Ideal for communication over the internet and viewing on small screens 	
	File Types		
JPG	Bitmap format that <u>compresses</u> digital images. Common file type used by smart phones and compact cameras.	Lossless • All original image quality is retained,	
PNG	Bitmap format that does not compress digital images (bigger file size than JPG). Supports <u>transparent</u> background.	Compression hence no loss Slight decrease in file size 	
GIF	Bitmap format that compresses digital images. Supports transparent background, <u>animation</u> and <u>web safe colours</u> . • Ideal for archiving images to retain original quality Used for large images such as posters and billboards		
TIFF	Bitmap format that does not compress digital images (file sizes tend to be bigger). Great for printing good <u>quality</u> images.		
SVG	Vector format; not widely supported. SWF files can be viewed using a <u>web browser</u> , such as Internet Explorer.		

Key terms: Bitmap, Vector, Resolution, Pixel, Compression, Lossy, Lossless, HTML, Tag, Markup, Element,



Summary of key information:			
Design Principle	Two things that designers should do Two things which designers should avoid		
Colour	 Use the organisation house style colours Use Textures Don't use too many colours Make sure that colours don't clash 		
Text	 Ensure that font size and style is readable Use appropriate font types Avoid Decorative fonts Avoid use of language that may not be appropriate for younger users 		
Layout	 Consistency Feedback to the user Don't group unrelated tasks together Avoid any difficulty for users to navigate the interface 		
Navigation and Input Controls	 Search Fields Icons Breadcrumbs Avoid using unfamiliar icons Avoid putting them too close together 		
HTMLTags			
<html> </html>	The most basic element – each page begins and ends with these		
<head> </head>	These signify where the head of the webpage is – data like the title go here		
<title> </title>	A title – this is viewable in the tab or browser window		
<body> </body>	These show where the content of the webpage goes. Anything visible on a page is found between these tags		
<h1> </h1>	A heading – a large, bold piece of text. Can range in size from h1 to h6		
	A paragraph – a large piece of text		
<a> 	A link – creates a link to another page or website		
	An image – adds an image to your page, either from a file or another website		