Name:

R082: Properties of Digital Graphics

A	Key Vocab
Compression	Reduction of a file size either by removing information (lossy) or without removing information (lossless)
Lossy	Compression of a file which loses some original data
Lossless	Compression of a file which keeps all the original data
Pixel	A single point of colour which makes up a bitmap image
Vector	A method of storing an image. Details of where lines start and end, fills and colours are stored. Looks smooth when enlarged
Bitmap	A method of storing an image. Each pixel's value and position is recorded. Looks pixelated when enlarged
Raster	Same as bitmap

B	Property Definitions
Digital graphic property	The features of a digital graphic file (as opposed to the composition) which make it suitable for different uses
Resolution	The number of pixels in a certain area, often measured in dpi
DPI	Dots per inch. A measure of resolution. The number of pixels in an inch.
File Type	The way an image is stored on the computer eg GIF
File Extension	eg .gif at the end of the file name
Dimensions	The width and the height of the image, measured either in pixels or in mm
Download speed	Smaller file sizes download faster. Larger images download slower
Picture quality	Smaller, more compressed files are lower quality. Larger files are higher quality

C		Properties of images		
	Property		**Made for the web**	**Made for print**
1	**Resolution**	Measured in dpi	Low resolution – 72dpi	High resolution – 300 dpi
2	**Colours**	How many colours the image can support	eg GIF has 256	Millions of colours
3	**File size**	Measured in MegaBytes (MB)	Small for lower download times	large for higher quality
4	**Dimensions**	Width x Height	Measured in px	Measured in mm
5	**Compression**	How the file is compressed	High compression for smaller file	Little or no compression
6	**File Type**	Same as *file format* and *file extension*	eg GIF, JPG, PNG	eg RAW, TIFF, EPS, BMP