

SUBJECT: Computing

UNIT: Image Editing

Term	Definition
Pixel	A tiny square of colour, the smallest unit of information in a digital image. Bitmap images are made up of millions of these.
Resolution	The number of pixels in an image. Higher resolution means more detail but a larger file size.
Vector Graphic	Images made up of mathematical equations (lines, curves, and shapes). They can be scaled infinitely without losing quality.
Bitmap/Raster Graphic	Images made up of a grid of pixels. Quality is lost when they are scaled up.
Transparency	The ability to see through parts of an image. Often represented by a grey and white checkerboard pattern in editing software.
Layer	Like sheets of glass stacked on top of each other. Allows you to edit one part of an image (or one image) without affecting the others.

Feature	Bitmap/Raster Graphic	Vector Graphic
How it's made	Grid of coloured pixels.	Mathematical equations (lines, curves, shapes).
Scaling	Becomes pixellated (blurry/blocky) when enlarged.	Scales perfectly to any size without losing quality.
Best Used For	Photos, complex digital paintings, realistic images.	Logos, diagrams, illustrations, text/fonts.
Common File Types	.JPG, .PNG, .GIF, .BMP, .TIFF	.SVG, .AI, .EPS

Tool	Icon (or Description)	Purpose
Move Tool	Four-headed arrow	Used to move layers, selections, or guides around the canvas.
Scale Tool	Box with two arrows (one in and one out)	Changes the size (width and height) of a layer or selection.
Free Select Tool	Lasso shape	Allows you to draw an irregular, non-geometric selection around an area.
Eraser Tool	Pink rectangle with a line	Used to remove pixels, revealing what is on the layer below (or transparency).