

Y8 COMPUTING - KNOWLEDGE ORGANISER

VECTOR GRAPHICS

Vector Graphics – simple digital images made up of paths and shapes can be easily edited.

Used to create graphics that need a large format.

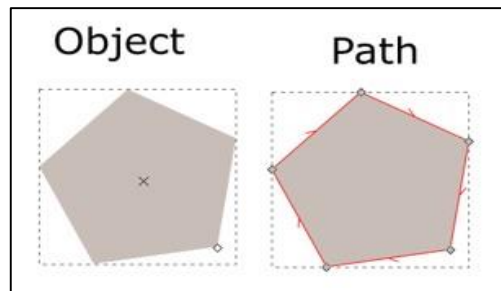
Vector graphic file sizes are usually small.

Scalable which means you can change their size without losing quality.

Bitmap images (raster graphics) – complex images made up of small individual squares of colour called pixels which can be individually edited. Used for real photographs.

File sizes are large as information about each pixel is stored. Bitmap graphics lose quality when they are resized.

The term 'path' is used because lines and shapes have a start and end point with curves and angles along the way.



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Comparison	Vector Graphic	Bitmap Graphic
Consist of	Objects	Coloured pixels
File size	Small	Large
Appearance	Simple	Detailed
File format	.svg .wmp	.bmp .jpg .gif
Scalable	Quality same	Quality lost
Use	Logos, icons & illustrations	Real images & photographs

Logo - symbol used to represent an organisation or a product.

Icons – often on computer application interfaces, representing buttons or selectable features of the software.

Illustrations - simple drawings used in books, posters, and flyers.

Key words:

Align	Distribute	Duplicate
Ellipse	Equidistant	Fill
Flip	Freehand	Group
Handles	Intersection	Move
Node	Monochrome	Object
Path	Pixels	Polygon
Raster	Rectangle	Resize
Rotate	Scalable	Segment
Select	Ungroup	Union