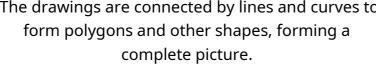
## 5.5 <u>Creating media – Introduction to vector graphics</u> – Knowledge Organiser

**Key** prior learning is highlighted in green, but must be revisited and reinforced during this teaching sequence.

#### Overview

these examples, bu**ltelots roth catwe**mgy ector drawing

- the same tools and functions.
  -Vector drawings are computer graphic images that are made using 2-D shapes.
  - -The drawings are connected by lines and curves to form polygons and other shapes, forming a
  - -There are lots of different apps and programs that can help us to complete vector drawings, including
  - -Many techniques, e.g. zooming, rotating, resizing & duplicating, can help to create accurate images.



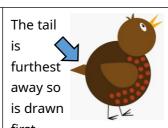
# Google Drawings and Adobe Illustrator.

### **Creating Simple Vector Drawings**

Vector drawings use lines and shapes to create bigger and more detailed images.



<u>Plan</u> your drawing by thinking about what shapes it is made up of. Each shape is called an obiect.



When vector drawing, the <u>shapes overlap</u>, so start with the objects that are the furthest awav.



Copy and paste has been used to make the red spots the same size.

You can save a lot of time and effort doing the same thing over and over by duplicating shapes. This is done most easily by copying the object that you want to duplicate (hold ctrl + c) and pasting (hold ctrl + v) a new one.



You can enlarge/reduce an object by clicking on it and dragging the handles to the desired size.



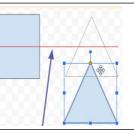
You can rotate an object by ragging the circular handle at the top.

#### More Complex Vector Drawings

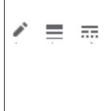


When dealing with small and intricate objects, it is important to use the zoom tool. Zooming in allows you to work with more precision. Zooming out allows a

wider view



The Alignment guides pop up as you move objects around, and help you to align and size ohiects



The line tools can be used to help you change the colour and weight (thickness) of the line, and to make dotted lines.

Coloured lines can be drawn, and colours can be used to fill shapes.

Gradient colours can be used to colour the same object in different colours

Remember to that vector drawing is all about layering. By gradually adding layers of basic shapes, you build up something far more complex.





#### **Advanced Tips**



Grouping: 1. Select all images. 2. Rightclick 3. Choose 'group.' All of the objects can now be moved and changed at the same time.



Advanced Layering: Right-click on objects and use the 'send to back' and 'bring to front' tools (in 'order') to ensure that your layering is in the

correct order



Backgrounds: You can create backgrounds by uploading images (using this icon). Remember to 'send to back' after it has heen inserted

**Selecting Multiple Objects** 

- -Draw a dotted box around all of the objects in an image. This allows you to select all of the objects.
- -When you perform an action (e.g. copy and paste) it will now apply to all.

#### Important Vocabulary

Organise Alianment Grid Vector Drawing tools Vector Drawing Duplicate/Copy

> Handles Consistency Modify Layers Object Paste Group Ungroup Reuse Improvement Alternatives