



Computing

Year 5

Term 5

Creativity & Publishing: Vector Drawing

Key Question: What are vector drawings and how are they created?

National Curriculum Objectives:

- Select, use, and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems, and content that accomplish given goals, including collecting, analysing, evaluating, and presenting data and information.

Vocabulary

Vector, vector drawing, drawing tools, toolbar, object, move, resize, colour, rotate, duplicate/copy, paste, zoom, select, align, resize, modify, layers, object, order, group, ungroup, reflection

Prior Learning:

- This unit progresses learners' knowledge and understanding of digital painting and has some links to the Year 3 'Creating media - Desktop publishing' unit, in which learners used digital images.
- In KS1 the children will have used line and shape tools to create simple drawings on a paint program.

End Point:

Use the skills they have gained in this unit to create a vector drawing for a specific purpose.

Use assessment rubric to assess.

Safe and Responsible Use:

use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Digital Literacy Skills:

- Use keyboard shortcuts for copy, paste and undo
- Use right click
- To save, retrieve and print files,

Knowledge:

I know:

- A vector is an image created using a graphics drawing application.
- each element added to a vector drawing is an object
- a vector drawing comprises separate objects
- each object in a drawing is in its own layer
- vector images can be scaled without impact on quality
- that objects can be modified in groups
- how alignment and size guides can help create a more consistent drawing

Skills:

I can:

- Use shape and line tools
- add an object to a vector drawing
- select one object or multiple objects
- delete objects
- duplicate objects using copy and paste
- resize, rotate and reposition objects
- modify objects to create a new image
- use the zoom tool to help me add detail to my drawings
- group and ungroup selected objects
- move objects between the layers of a drawing
- combine options to achieve a desired effect
- create a vector drawing for a given purpose
- consider the impact of choices made

Cross Curricular Links:

- Art - digital art

Oracy:

- Provide sentence stems for reflection tasks.

Key Questions:

1. **How reliable is information on the world wide web?**
2. What is a vector drawing?
3. How is a vector drawing created?
4. How can objects be modified to create effective drawings?
5. Why are layers important in vector drawings?
6. How is grouping useful when creating vector drawings?
7. Can I create my own vector drawing?