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| **Term Pentecost 1:Creating media – Introduction to vector graphics**  **Subject Computing Year 5 Medium Term Planning** | | | | | | |
| 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. | | | | | | |
|  | Lesson 1 | Lesson 2 | Lesson 3 | Lesson 4 | Lesson 5 | Lesson 6 |
| **Learning intention for each lesson:** | I know how to identify that drawing tools can be used to produce different outcomes | I know how to create a vector drawing by combining shapes | I know how to use tools to achieve a desired effect | I know how to recognise that vector drawings consist of layers. | I know how to group objects to make them easier to work with | I know how to apply what I have learned about vector drawings |
| **Recall and retrieval** | Name 3 things a computer database allows us to do. | What outcome do different tools produce | What is a vector diagram | How has an effect been created? | To explain some of the layers that make up a vector diagram. | How can you make objects easier to work with? |
| **Sequence of knowledge throughout the lesson**  **Key skills within each lesson** | **Key knowledge**  I know how to recognise that vector drawings are made using shapes  I know how to experiment with the shape and line tools  I know how to discuss how vector drawings are different from paper-based drawings  **To begin to know vector diagrams are made up of lines and shapes** | **Key knowledge**  I know how to identify the shapes used to make a vector drawing  I know how to explain that each element added to a vector drawing is an object  I know how to move, resize, and rotate objects I have duplicated  **To be able to explain that each element of a vector drawing is called an object.** | **Key knowledge**  I know how to use the zoom tool to help me add detail to my drawings  I know how to explain how alignment grids and resize handles can be used to improve consistency  I know how to modify objects to create a new image  **To use the zoom tool to add detail to their work.** | **Key knowledge**  I know how to identify that each added object creates a new layer in the drawing  I know how to change the order of layers in a vector drawing  I know how to use layering to create an image  **To gain an understanding of layers and how they are used in vector drawings.** | **Key knowledge**  I know how to copy part of a drawing by duplicating several objects  I know how to recognise when I need to group and ungroup objects  I know how to reuse a group of objects to further develop my vector drawing  **To select and duplicate multiple objects at a single time.** | **Key knowledge**  I know how to create a vector drawing for a specific purpose  I know how to reflect on the skills I have used and why I have used them  I know how to compare vector drawings to freehand paint drawings  **To use the skills they have gained in this unit to create a vector drawing for a specific purpose** |
| **Scaffolding** | **Supported to use vector diagrams.** | **Guided questioning** | **Supported to use zoom tool.** | **Supported to identify layers** | **Supported to group objects.** | **Guided questioning** |
| **Challenge** | **Discuss differences between vector drawings and paper based drawings.** | **To learn how to duplicate the objects to save time.** | **To increase the complexity of their vector drawings and use the zoom tool to add detail to their work** | **To move layers forwards and backwards to create an image.** | **To group multiple objects to make them easier to work with** | **They reflect on the skills they have used to create the vector drawing and think about why they used the skills they did** |
|  | **Key Vocabulary**  **Vector, drawing tools, object, toolbar** | **Key Vocabulary**  **Vector drawing, object, move, resize, colour, rotate, duplicate/copy** | **Key Vocabulary**  **Zoom, select, rotate, object, align, resize, modify** | **Key Vocabulary**  **Zoom, select, rotate, object, align, resize, modify** | **Key Vocabulary**  **Zoom, select, rotate, object, align, resize, modify** | **Key Vocabulary**  **Reflection, vector drawing** |