Computing Unit 2 – Creating Media – Digital Painting Year 1

I should already know…

- The names of the main parts of a computer
- What is keyboard is for
- What a mouse is for
- How to save and retrieve work
- How to turn on and log on a computer
- Rules to keep me safe and healthy when using technology

I should already be able to….

- Switch on and log on a computer
- Use a mouse to click and drag
- Use a mouse to open a program
- Use a mouse to drag objects on a screen
- Use a mouse to create a picture
- Save my work to a file
- Open work from a file
- Give examples of rules to keep me safe and discuss how the rules help us.

How this links to the wider curriculum…

There are clear links to art, where you can re-create works of art linked to the wider curriculum. The development of skills in this area also mean that you can use paint in lots of different subjects to present your work.

I need to know….

- The names and jobs of different paint tools

I need to be able to….

- Make marks on a screen and explain which tools I used
- Draw lines on a screen
- Use paint tools to draw a picture
- Use shape and line tools effectively
- Choose appropriate paint tools
- Make dots of colour on the page
- Change colour and brush sizes
- Spot the differences between painting on a computer and on paper

Star words

Computing Unit 2 – Digital Photography Year 2

I should already know…

- The names and jobs of different paint tools

I should already be able to….

- Make marks on a screen and explain which tools I used
- Draw lines on a screen
- Use paint tools to draw a picture
- Use shape and line tools effectively
- Choose appropriate paint tools
- Make dots of colour on the page
- Change colour and brush sizes
- Spot the differences between painting on a computer and on paper

How this links to the wider curriculum…

There are clear links between this unit and science, thinking about light sources.

This unit can link to geography and history, using devices to take photographs as part of your field work.

This unit also links to art.

I need to know….

- What devices can be used to take photographs

I need to be able to….

- Explain the process I have used
- Identify what is wrong with a photograph
- Improve a photograph by retaking it
- Explore the effect light has on a photograph
- Experiment with different sources of light
- Use a tool to achieve a desired effect
- Explain my choices
- Recognise when photographs have been changed

Star words

Computing Unit 2- Stop Frame Animation Year 3

I should already know…

- What devices can be used to take photographs

I should already be able to….

- Explain the process I have used
- Identify what is wrong with a photograph
- Improve a photograph by retaking it
- Explore the effect light has on a photograph
- Experiment with different sources of light
- Use a tool to achieve a desired effect
- Explain my choices
- Recognise when photographs have been changed

How this links to the wider curriculum…

The animation can be based in any subject. It is Autumn 2 so there could be links to the Christmas story. It is a creative unit and could link to work in English.

I need to know….

- What an animation is
- What onion skinning is

I need to be able to….

- Draw a sequence of pictures
- Explain how an animation works
- Predict what an animation will look like
- Create an effective stop-frame animation
- Create a storyboard
- Use onion skinning to help make small changes
- Evaluate the quality of my animation
- Improve my animation based on feedback
- Add other media to my animation

Star words

Animation
Stop-Frame
Storyboard
Onion Skinning
Media

Computing Unit 2 – Creating Media – Audio Production Year 4

I should already know…

- That digital devices accept inputs
- That digital devices produce outputs

I should already be able to….

- Follow a process
- Classify input and output devices
- Describe a simple process

How this links to the wider curriculum…

This unit could link closely with creating greetings linked to the Christmas season. Children could think about creating audio books for younger children.

I need to know….

- What input and output devices used to record and play sound
- The rules about who owns and is allowed to use a recording
- Know what a podcast is
- How to save a project to keep the parts editable

I need to be able to….

- Use a computer to record audio
- Re-record my voice to improve my recording
- Inspect the soundwave view to know where to trim my recording
- Discuss sounds that can be added to a podcast
- Plan the content of a podcast
- Record content, following a plan
- Review the quality of my recordings
- Open my project
- Arrange multiple sounds to create an effect
- Save and export an audio file
- Suggest improvements to an audio recording

Star words

Computing Unit 2 – Video Production Year 5

I should already know…

- What input and output devices used to record and play sound
- The rules about who owns and is allowed to use a recording
- How to save a project to keep the parts editable

I should already be able to….

- Use a computer to record audio
- Re-record my voice to improve my recording
- Record content, following a plan
- Review the quality of my recordings
- Open my project
- Save and export an audio file
- Suggest improvements to an audio recording

How this links to the wider curriculum…

Creating a film links closely to create parts of the curriculum including English. At this time of year, there are possible links to Christmas and the Nativity story.

- **I need to know….**
- That a video is a visual media format
- The features of videos
- How to store, retrieve and export my recording
- That my choices impact the quality of the final outcome

I need to be able to….

- Compare features of different videos
- Identify features on a digital video recording device
- Experiment with different camera angles
- Make use of a microphone
- Suggest filming techniques for a purpose
- Capture video using a range of filming techniques
- Review how effective my video is
- Explain how to improve a video by reshooting and editing
- Select the correct tools to make edits
- Evaluate my video and share my opinions

Star words

Video
Recording
Camera angles
Microphone
Visual media

Computing Unit 2 – Web Page Creation Year 6

I should already know…

- How to store, retrieve and export my recording
- That my choices impact the quality of the final outcome
- How to access shared files stored online
- That working together on the internet can be public or private
- That there are a variety of ways to communicate over the internet

I should already be able to….

- Send information over the internet in different ways
- Work together online
- Explain how the internet enables effective collaboration
- Choose methods of communication to suit a particular purpose
- Compare different methods of communicating on the internet
- Decide when I should and should not share information online

How this links to the wider curriculum…

The content of this unit can link to any other area of the curriculum including history or geography.

I need to know….

- The different types of media used on websites
- That websites are written in HTML
- What copyright is
- What is meant by 'fair use'
- What a navigation path is
- Know what a hyperlink is

I need to be able to….

- Explore a website
- Recognise the common features of a webpage
- Suggest media to include
- Draw a webpage layout to suit a purpose
- Why I should use copyright-free images
- Add content
- Preview what my web page looks like
- Evaluate my webpage
- Describe why navigation paths are useful
- Make multiple web pages and link them using hyperlinks
- Explain the implication of linking to content owned by others

Star words

hyperlink
website
copyright
web page
navigation paths
HTML