	Computing Subject knowledge, discipline and vocabulary Year 3 Autumn		
1661			
Unit	Connecting Computers	Stop Frame Animation	
Previous Learning	<ul> <li>I can identify computers used around the home, school and community.</li> <li>I can describe how computers can be used responsibly.</li> </ul>	<ul> <li>I can use technology to capture photographs</li> <li>I can use editing tools to alter images</li> <li>I can identify ways to develop good photography composition</li> </ul>	
Subject Knowledge (what)	<ul> <li>Understanding the connections made between digital devices.</li> <li>NC:</li> <li>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output</li> <li>Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration</li> <li>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</li> <li>A process acts on the inputs.</li> <li>An output is produced by the process.</li> <li>Changing the process can affect the output.</li> <li>A digital device is made up of several parts.</li> <li>Computers can be connected to each other.</li> <li>Computer systems can change the way we work.</li> <li>Devices in a network are connected to each other.</li> <li>A network is made up of a number of components.</li> <li>Information is sent through multiple connections.</li> </ul>	<ul> <li>Understanding how stop frame animation is created and edited.</li> <li>NC: <ul> <li>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</li> <li>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul> </li> <li>An animation is made up of a sequence of images.</li> <li>Animations can be drawn images or captured photographs.</li> <li>Consistency is necessary to maintain smooth animation.</li> <li>Additional media can be added to animation.</li> </ul>	
Subject Discipline (how)	<ul> <li>Identify input and output devices.</li> <li>Explore how computer systems accept inputs and processes it to produce an output.</li> <li>Explore how a computer network can be used to share information.</li> <li>Explore the role of a switch, server, and wireless access point in a network.</li> <li>Identify network devices.</li> <li>Explore how networks can be connected to other networks.</li> <li>Compare using digital and non-digital devices for different activities.</li> </ul>	<ul> <li>Use technology to create an animation.</li> <li>Set up devices to capture stop frame photos.</li> <li>Explore using tools to review subject position.</li> <li>Remove images to improve animation.</li> <li>Add additional media to animation.</li> <li>Export media.</li> </ul>	

## **Key Vocab**

- **Digital device-** a piece of equipment that uses digital data.
- **Input-** something that is put in/take int to a digital device.
- Output- the result from a process.
- **Process-** steps to change information.
- **Digital** storing information in the form of numbers.
- **Program-** a set of processes completed to achieve a task.
- Non-digital- not relating to or using computers.
- Connection- a link between two devices.
- **Network-** two or more computers that are connected.
- **Network switch-** a device that connects other devices together.
- **Server-** a computer that manages the network and stores files.
- Wireless Access Point- a networking device that allows Wi-Fi devices to connect to a network.
- **Network cable-** wires used to connect wired devices to the network.
- **Network sockets-** a socket that allows network cables to be connected to the network.

- Animation- the art of creating moving images using computers.
- **Flip book-** a series of images that, when viewed in quick succession, appear to animate.
- **Stop-frame animation-** animation technique using images in which objects are moved slightly between each frame.
- Frame- a single photograph.
- **Sequence-** the specific order things are placed in.
- Image- a representation of an external form.
- **Photograph-** an image created using a camera.
- **Digital** storing information in the form of numbers.
- **Program-** a set of processes completed to achieve a task.
- Non-digital- not relating to or using computers.
- Onion skinning- a technique used in creating animated cartoons and editing movies to see several frames at once.
- Consistency- constant behaviour.
- Evaluation- assess a project.
- Media- electronic devices used to store data.
- **Import-** to convert a file from one application to another.
- **Transition-** a change from one movement to another.