



Computing Skill Progression

Year 3
Computer Systems and Networks – Connecting Computers
<p>Explain that digital devices accept inputs.</p> <p>Explain that digital devices produce outputs.</p> <p>Follow a process.</p> <p>Design a digital device.</p> <p>Recognise similarities between using digital devices and non-digital tools.</p> <p>Recognise different connections.</p> <p>Explain how messages are passed through multiple connections.</p> <p>Discuss why we need a network switch.</p> <p>Recognise that a computer network is made up of a number of devices.</p> <p>Explain the role of a switch, server, and wireless access point in a network.</p> <p>Identify networked devices around me.</p> <p>Identify the benefits of computer networks.</p>
Creating Media – Animation
<p>Create an effective flip book—style animation.</p> <p>Explain how an animation/flip book works.</p> <p>Explain why little changes are needed for each frame.</p> <p>Create an effective stop frame animation.</p> <p>Create a storyboard.</p> <p>Review a sequence of frames to check my work.</p> <p>Improve my animation based on feedback.</p> <p>Add other media to my animation.</p>
Creating Media – Desktop Publishing
<p>Explain the difference between text and images.</p> <p>Recognise that text and images can communicate messages clearly.</p> <p>Change font style, size, and colours for a given purpose.</p> <p>Edit text.</p> <p>Create a template for a particular purpose.</p> <p>Paste text and images to create a magazine cover.</p> <p>Make changes to content after I've added it.</p> <p>Match a layout to a purpose.</p> <p>Choose a suitable layout for a given purpose.</p> <p>Say why desktop publishing might be helpful.</p>
Data and information – Branching Databases
<p>Investigate questions with yes/no answers.</p> <p>Select an attribute to separate objects into groups.</p> <p>Arrange objects into a tree structure.</p> <p>Select objects to arrange in a branching database.</p> <p>Prove my branching database works.</p> <p>Compare two branching database structures.</p> <p>Create questions and apply them to a tree structure.</p> <p>Use my branching database to answer questions.</p> <p>Explain what a branching database tells me.</p>
Programming A – Sequence in Music
<p>Identify the objects in a Scratch project (sprites, backdrops).</p> <p>Create a program following a design.</p> <p>Start a program in different ways.</p> <p>Create a sequence of connected commands.</p> <p>Combine sound commands.</p> <p>Decide the actions for each sprite in a program.</p> <p>Implement my algorithm as code.</p>
Programming B – Events and Actions
<p>Explain the relationship between an event and an action.</p>



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Choose which keys to use for actions and explain my choices.

Identify a way to improve a program.

Program movement.

Use a programming extension.

Identify additional features (from a given set of blocks).

Choose suitable keys to turn on additional features.

Build more sequences of commands to make my design work.

Test a program against a given design.

Match a piece of code to an outcome.

Modify a program using a design.

Make design choices and justify them.

Implement my design.