

## Knowledge Organiser for Year 1 Spring 1

**Big question: How can I create a program on ScratchJr?**

### British Values Link: Tolerance

(Respecting differences, working together and learning about others, being kind to everyone)

#### National curriculum specification (KS1)

- Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions
- Create and debug simple programs
- Use logical reasoning to predict the behaviour of simple programs



In this unit, the children will:

Choose a command for a given purpose

Show a series of commands and how they can be joined together

Identify the effect of a changing value (in a block)

Explain how each sprite has its own instructions

Design the parts of a project (create own algorithm)

Use own algorithm to create a program

#### Key vocabulary:

ScratchJr	An introductory programming language that enables young children to create their own interactive stories and games.
Command	A single instruction that can be used in a program to control a computer.
Sprite	The main characters of the project.
Program	A set of ordered commands that can be run by a computer to complete a task.
Block	A movement.
Run	To action the commands in a program.
Value	A way to change the variable in a block.
Algorithm	A precise set of ordered steps that can be followed by a human or a computer to achieve a task.

Teacher Subject Knowledge:	
Seesaw links for activities in each session	<p>Cold Task:</p> <p><a href="https://app.seesaw.me/pages/shared_activity?prompt_id=prompt.37094b7b-c835-43fc-bc73-57265791f185&amp;share_token=WsBABgVzTGOvvSm-PAZtsA">https://app.seesaw.me/pages/shared_activity?prompt_id=prompt.37094b7b-c835-43fc-bc73-57265791f185&amp;share_token=WsBABgVzTGOvvSm-PAZtsA</a></p>
Subject Knowledge – teacher training	<p><a href="#">Intro to Programming with Scratch - Online Programming Course - FutureLearn</a> – programming introductory course. It would be helpful to complete Week 1, which should take 20 minutes:</p> <div> <p>Week 1 -</p> <ul style="list-style-type: none"> <li>• Get to know Scratch</li> <li>• Sprites, costumes and backdrops</li> <li>• Sequencing in Programming</li> <li>• Moving a sprite</li> </ul> </div>