#### Dereham Church Infant and Nursery School- Computing



Year group: Year 1

Area/topic: Algorithm - Animations on Scratch

Jr (Summer 2)

(objectives from NC/ELG/Development matters)

Pupils to be taught:

- 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.

Prior Jearning	Future learning
Children would have explored what an algorithm	In Year 2 the children will revisit 'animations'
is during their Year   Spring term units. In these	when they create a stop motion video during
units they were taught that an algorithm is a set	Summer 2. They will also revisit how to use
of instructions that we input to create a computer	Scratch Ir for a purpose during their
to do something. They explored programming a	programming quizzes unit during Year 2 Spring
Beebot in Year 1. They will use this knowledge to	2.
create an algorithm for a sprite to follow on	
Scratch Jr.	

What pupils need to know or	do to be secure
Key knowledge and skills	Possible evidence
<ul> <li>Children to understand what the different coloured block Scratch and what they do.</li> <li>Children need to understand that they must start each the green flag block and must end it with the red block</li> <li>Children to create an algorithm by dragging the differe blocks onto the script area.</li> <li>Children to explain what effect that algorithm has had sprite.</li> <li>Children to debug their algorithm to improve the results</li> <li>Key vocabulary</li> </ul>	different coloured blocks from Scratch of the programme their friend before using them on the iPad.  on their  children to create their own short animation on Scratch Jr by
<ul> <li>Scratch Jr - An app used to support children with programming</li> <li>Sprite - A character on Scratch Jr.</li> <li>Animation - A film making technique where images are manipulation in movie.</li> <li>Instructions - A direction or order.</li> <li>Sequence - A basic algorithm. A set of logical steps carried out</li> <li>Program - A set of ordered commands that can be ran by a concomplete a task.</li> <li>Blocks - Blocks are different coloured puzzle pieces which can be concerned an algorithm.</li> <li>Script - The set of instructions on Scratch Jr that cause the sponding - To edit and change an algorithm to make it better.</li> </ul>	• Children could have a mini movie premiere where they watch each other's animations.  t in order.  In proper to the premier of the premier o
Common misconceptions E	Books linking to this area
<ul> <li>Children have recently been used to programming         a Beebot where they can just press the button         they need to get the Beebot to move. Children will         need to understand that with Scratch Jr, they</li> </ul>	

have to drag and drop the blocks to create the

whole algorithm first and it must also start with	
the green flag and end with the red block.	
Memorable first hand experiences	Opportunities for communication
Children will create their own mini animation	Children will be encouraged to discuss what
using Scratch Jr.	effect their algorithm has had on the Sprite.
<ul> <li>Children could have a mini movie premiere to</li> </ul>	
watch and review each other's animations.	

# DCINS Reasonable adjustments for pupils with SEND

	Communication and Interaction
•	Make sure the children are using the correct
	equipment for them.
•	Consider headphones to support the child to

 Have someone available to read any text that is on the screen.

### Social, Emotional and Mental health

- Timer so they understand when they will need to log off.
- Clear boundaries.

hear.

Online safety instructions made clear.

## Cognition and Learning

- Consider adjusting the brightness and colour so they can see the screen more easily.
- Have someone available to read any text that is on the screen.
- · Shorter steps given at appropriate time.
- · Simpler logins.
- · Adult to support with logging in.
- Print out which the different functions and tools on.
- Step by step guide printed out for them to refer to.

#### Sensory and Physical

- Larger text/equipment.
- · Print offs instead of screen time.
- Appropriate desk, chair, keyboard and mouse.