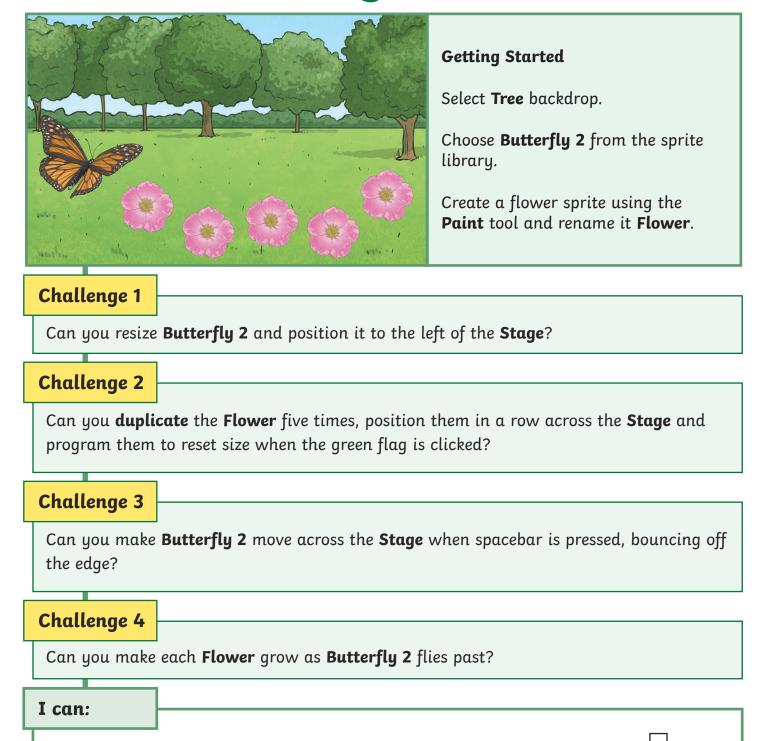
Creative Coding with Scratch

Growing Flowers







use the Paint tool to create a sprite;

make sprites bounce, if on edge;

make a sprite move when spacebar is pressed;

make a sprite interact with another sprite,

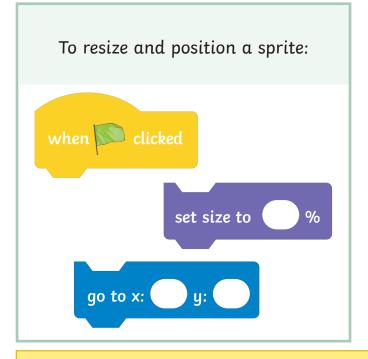
resize a sprite;

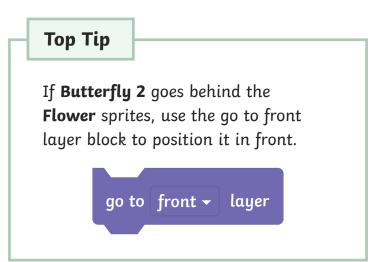
duplicate a sprite;

Helpful Hints Growing Flowers

Use these hints to help you complete the challenges. They will not give you the complete solution to the algorithm but should help you on your way.

The following code belongs on **Butterfly 2** and <u>all</u> **Flower** sprites:





The following code belongs on Butterfly 2:

To make a sprite move with the spacebar:





To resize and position a sprite:

if on edge, bounce

Top Tip

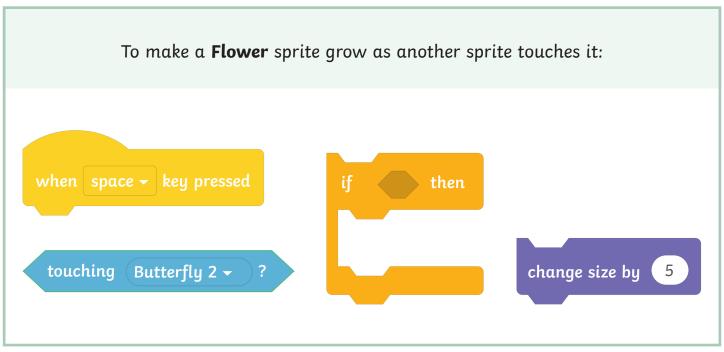
To make sure the sprite rotates accurately when bouncing off the edge, use the **set rotation style** block.

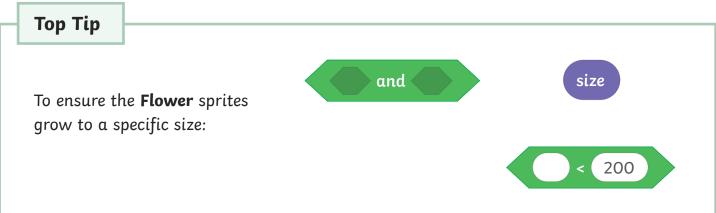
set rotation style left-right 🕶





The following code belongs on <u>all</u> **Flower** sprites:







Growing Flowers Answers

Each Creative Coding Challenge is an open-ended task, which can be approached in many different ways. Pupils should be encouraged to have a go and tackle these tasks independently. The helpful hints are not intended to provide complete solutions but may serve as useful cues for supporting less-confident coders.

The following algorithms are just one possible solution to each challenge.

The following code belongs on Butterfly 2: when clicked go to front layer set size to 50 % go to x: -192 y: -84 point in direction 90

