SCRATCH PROJECTS

Year 4

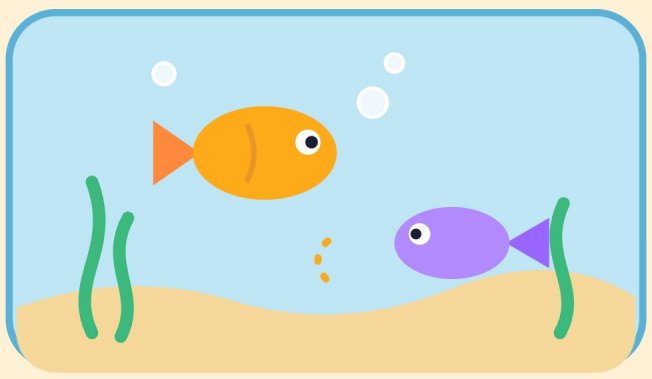
Repetition and loops

Five projects full of loops, movement and colour.



Skills this year

- **Y4.1** Use repeat instead of copying blocks
- **Y4.2** Use forever for things that never stop
- **Y4.3** Control a sprite with key presses
- **Y4.4** Position sprites using x and y
- **Y4.5** Give several sprites their own scripts
- **Y4.6** Change a loop's numbers and predict the result



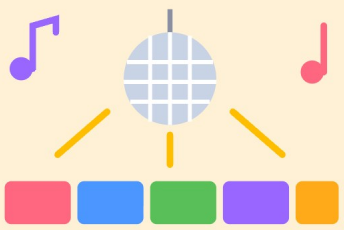
START HERE

Under the Sea

Fish swim forever, bounce off the edges and flap their tails while bubbles rise to the top.

Y4.2 Y4.4 Y4.5

Extend it Make each fish swim at a different speed.

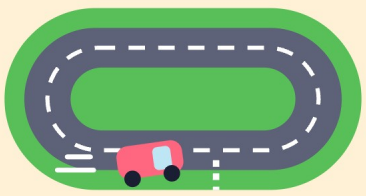


Dance Party

Dancers repeat their moves to music, and key presses change the dance.

Y4.1 Y4.3 Y4.6

Extend it Add a light show with colour effects.

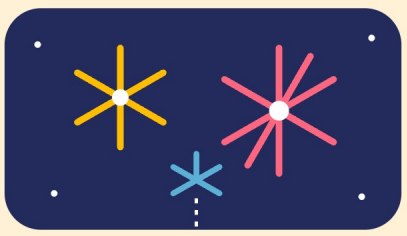


Racing Car

Drive around a track with the arrow keys, starting from the same x and y every race.

Y4.2 Y4.3 Y4.4

Extend it Design a second track with a new backdrop.

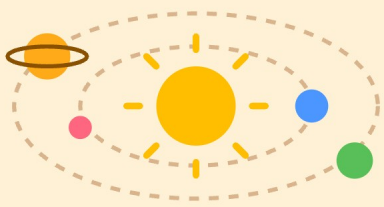


Firework Show

Repeat loops grow, spin and colour fireworks across the night sky.

Y4.1 Y4.6 Y3.4

Extend it Time the fireworks to a piece of music.



Solar System

Planets circle the sun forever, each one moving at its own speed.

Y4.2 Y4.5 Y4.6

Extend it Add a moon that circles one of the planets.

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