

Introduction to Scratch Lesson

Students get introduced to the Scratch App interface and terminology. Students get introduced to different coding blocks in different categories.

O2 Super Cat Lesson

This lesson will introduce students to the concept of position. All movement that happens in the stage depends on changing the positions of characters.

OB Cat and Mouse Lesson

This lesson will introduce students to the repeat until block and how to create a variable.

Space Rockets Lesson

This lesson will teach students how to move characters horizontally and vertically by changing the x and y values.

Space Dog Lesson

This lesson will teach students how to move characters horizontally and vertically by changing the x and y values.

Space Shooters Lesson

This lesson will introduce students to the if else block.

1 Farm Animals Lesson

This lesson will teach students how to add graphic effects to the program and to create a new character with multiple costumes.

OB Concert Composer Lesson

This lesson will teach students how to add sounds to their programs.

Scope and Sequencing

Lesson

09 Storyteller

This lesson will teach students how to send and receive messages.

Lesson

10 The Magnet

This lesson will teach students how to put to use the knowledge of all the coding blocks they learnt to use so far in a project.

Lesson

11 Even or Odd

This lesson will teach students how to put to use the knowledge of all the coding blocks they learnt to use so far in a project.

Lesson

12 Family Tree

This lesson will teach students how to interact with the user of the program by asking them a question and then saving that answer in a variable.

Lesson

13 Working People

This lesson will teach students how to put to use the knowledge of all the coding blocks they learnt to use so far in a project.

Lesson

Water Cycle (Open Project)

This lesson will have students create a whole project from scratch.

Lesson

15 Recycle Game (Open Project)

This lesson will have students create a whole project from scratch.

Lesson 2 – Super Cat

This lesson will introduce students to the concept of position.

All movement that happens in the stage area of Scratch depends on changing the positions of characters.

Position is made up of an x value/number and a y value/number

Anywhere you place your character you can save that x and y position so that after you play the program if you want to put the character in its original place you can give it the command block that says go to x y position



Remember: It is always useful to create a Start Position Block.

After you start the program with the start position stack block under the Start on Green Flag Block, you can continue your program to tell the character what to do next.

To make the cat fly to random positions in the stage, you can use this glide to random position block.



You can repeat this a number of times and if character reaches edge bounce back into the stage.





And finally set up the final position where you want the cat to land back on the ground and the direction you want it to face (left or right) and the final costume it should have.



The extra challenge: the students should add multiple glide to x y positions that are the positions they have decided they want the cat to go to want.



SUPER CAT



Create a super flying cat!

- Design a background
- · Redesign a character
- Move the cat randomly around the screen by changing its positions

SUPER CAT



- decide the initial characteristics of your character and create and define the start blocks stack
- decide how many times you want your character to fly to a random position
- decide how you want your program to end (decide the position, size, direction, costume of your character at the end)







SUPER CAT



Check out the lesson's gallery to find additional characters and background options





Modify your program to fly the cat along a certain path (you decide the cats positions, not random) Hint: You can create a new character and paint a path with dots that you can use as reference points for the cat to move along

You can choose if you want the path to be shown or hidden at the start of the program



