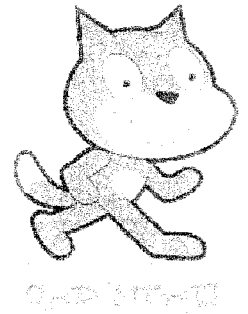


algorithm

Let's look again at the two main things we need to code in our game:

1. moving the explorer
2. reaching centre of the maze (and rescuing the explorer's friend)

The table below shows an **algorithm** for moving the explorer and Scratch **code** that does the same thing.



Algorithm for moving explorer	Code
when the flag is clicked repeat forever if right arrow key is pressed point right move 5 steps if left arrow key is pressed point left move 5 steps if up arrow key is pressed point up move 5 steps if down arrow key is pressed point down move 5 steps if explorer touches the same colour as the maze wall go back to starting position	

Algorithms let programmers concentrate on what the program has to do instead of how to do it on the computer. Once the algorithm is worked out, writing the code is easy!

Notice how an algorithm is **indented** to show which parts belong **inside** other parts e.g.

repeat forever

- if right arrow key is pressed goes inside repeat forever
- point right goes inside if right arrow key is pressed
- move 5 steps goes inside if right arrow key is pressed

define algorithm -

Standards CCLS RL.6.4, RI.6.7, W.6.2.d,
W.6.3.d W.6.6

name _____ class _____ Computer _____

team _____ date _____

now let us write to help our project move along

Write an algorithm that explains how you start your game

Write an algorithm for another section of your game

What is going on here?

What is going on here?



Technology in our world