

St George's Central CE Primary School and Nursery

Computing Y3/4 – Computing – How does the turtle win the race?

What will we learn:

- To learn the structure of the coding language of Logo.
- To input simple instructions in Logo.

- Using 2Logo to create letter shapes.
- To use the Repeat function in Logo to create shapes.
- To use and build procedures in Logo

Prior Learning

In Y1/2 I learnt:

- To compare the effects of adhering strictly to instructions to completing tasks without complete instructions.
- To follow and create simple instructions on the computer.
- To consider how the order of instructions affects the result.

Future Learning in Year 5/6

To represent a program design and algorithm.

To explore string and text variable types so that the most appropriate can be used in programs

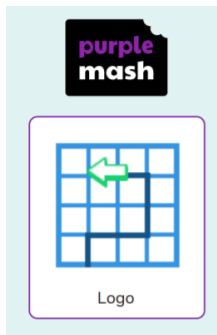
To program a playable game with timers and scorepad.

To create a program that simulates a physical system using decomposition

Vocabulary

Logo	A text-based coding language used to control an on screen turtle to create mathematical patterns.
FD	Move forwards a distance of units.
BK	Move backwards a distance of units.
RT	Turn right a number of degrees
LT	Turn left a number of degrees
REPEAT	Repeat a set of instructions a number of times
SETPC	Set a pen colour
SETPS	Set the thickness of a pen
PU and PD	Pen up and Pen down

Resources that are going to help me achieve my learning.



Fun Facts:

- In 1967, the first Logo ran on a mainframe computer, a machine called a teletype was used to type in and printout the results. There was no screen.
- In 1969, it was used to control a Floor Turtle. Commands were added to send the turtle forwards and backwards, and to turn the turtle to left or right. This turtle had pen with different colours. When it moved, it left a trail on the floor.
- When a new version of Logo was developed to draw graphics on a screen, it used the same commands. This was called Turtle graphics.
- There are 170 versions of Logo. Many of them are open source and free.

'Never settle for less than your best'

Jesus said, 'I am the light of the world. Whoever follows Me will not walk in darkness, but will have the light of life.' John 8:12

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