

Levels : Early & First

Maximum Number of Pupils: 30

Duration: 30 mins

What to Expect

Pupils will be introduced to control technology, directional language and simple coding. Pupils will work in groups to prepare a sequence of instructions for the robots to follow and complete a series of challenges and activities. Pupils will work as a team using programmable floor robots such as bee-bots and code-a-pillars.

What is Covered

- Using robots, pupils will problem-solve to navigate various points
- Pupils will plan and then execute a route
- Pupils will measure how many units their robots travel and describe their route using directional language

Curriculum for Excellence links

We have identified the Curriculum for Excellence experiences and outcomes to which this workshop can most significantly contribute (please see the next page):

Early Level TCH 0-01a

I can explore digital technologies and use what I learn to solve problems and share ideas and thoughts.

Early Level TCH 0-13a

I can explore computational thinking processes involved in a variety of everyday tasks and can identify patterns in objects or information.

**Early Level
TCH 0-14a**

I understand that sequences of instructions are used to control computing technology.

**Early Level
TCH 0-15a**

I can develop a sequence of instructions and run them using programmable devices or equivalent.

**Early Level
MTH 0-16a**

I have experienced the wonder of looking at the vastness of the sky, and can recognise the Sun, Moon and stars and link them to daily patterns of life

**First Level
TCH 1-01a**

I can explore and experiment with digital technologies and can use what I learn to support and enhance my learning in different contexts.

**First Level
TCH 1-09a**

I can design and construct models and explain my solutions.

**First Level
TCH 1-12a**

I explore and discover engineering disciplines and can create solutions.

**First Level
TCH 1-13a**

I can explore and comment on processes in the world around me making use of core computational thinking concepts and can organise information in a logical way.

First Level
TCH 1-14b

I understand how computers process information.

First Level
MTH 1-17a

I can describe, follow and record routes and journeys using signs, words and angles associated with direction and turning.