

Sticky Learning for Computing

Class 2 (Year 1.3)

Programming A: Moving a Robot (6 weeks)

Prior Learning: Being a Year 1 topic, it doesn't require any previous knowledge. This topic will enhance your understanding of giving and following instructions, transitioning from giving instructions to each other, to programming a robot by providing it with instructions.

- I can explain what a command will do.

AL

KS1-1, KS1-2, KS1-3, KS1-5

- I can act out a given word.

AL, IT

KS1-1, KS1-2, KS1-3, KS1-5

- I can combine forwards and backwards commands to make a sequence.

PG

KS1-1, KS1-2, KS1-3, KS1-5

- I can combine four direction commands to make sequences.

PG

KS1-1, KS1-2, KS1-3, KS1-5

- I can plan a simple program.

AL, DD

KS1-1, KS1-2, KS1-3, KS1-5

- I can find more than one solution to a problem.

AL

KS1-1, KS1-2, KS1-3, KS1-5

Key Vocabulary to learn:

- enact
- predict
- command
- device
- robot
- program
- instructions
- sequence
- solution

Taxonomy:

AL Algorithms

CS Computing systems

CM Creating media

DI Data and information

DD Design and development

ET Effective use of tools

IT Impact of technology

NW Networks

PG Programming

SS Safety and security

National Curriculum: Key Stage 1:

KS1-1 Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions.

KS1-2 Create and debug simple programs

KS1-3 Use logical reasoning to predict the behaviour of simple programs

KS1-4 Use technology purposefully to create, organise, store, manipulate, and retrieve digital content.

KS1-5 Recognise common uses of information technology beyond school.

KS1-6 Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

DfE: Education in a Connected World:

SI Self Image and Identity.

OR Online Relationships.

OP Online Reputation.

OB Online Bullying.

MI Managing Online Information

HW Health, well-being and lifestyle.

PS Privacy and Security.

CO Copyright and ownership.