



Curriculum

Year 3 Scheme of Work

Term: Spring 1

Topic: Computer Science

Key Skills and Knowledge:

National Curriculum Statement

design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts

use sequence, selection, and repetition in programs; work with variables and various forms of input and output

use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

Key skills and competences

- I can write algorithms control on screen objects
- I can write an algorithm to cause an event to happen in response to simple input
- I can explore the effects of changing variables in a program.
- I debug coding using commands that I am familiar with.
- I can name some objects that use coding to control them.

use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

- I understand that some games and videos are not intended for children.
- I understand that these games can upset children.
- I understand why it is not appropriate for me to watch games that are intended for older children and adults.
- I understand the harm these games and videos may cause me.
- I know what to do if I have seen anything that upsets me when using technology.

Reading and Writing Opportunities (Long and Short Activities)

Creative Ideas and Hooks

Write instructions to get from one place in the room to another.

Be a robot in PE. Follow instructions.
Find items in school that use technology to control them – microwave, washing machine, panel from solar energy...
Use Purple Mash direction and timer activities.

Links to PSHCE, Equality and British Values Work

Technology is all around us – being respectful about others when using it.

Key Vocabulary:

Move forward, backwards, up, down, left, right.
Timer/wait command
Debug
Start
algorithm

Resources Available / Visits/Visitors

Purple Mash website – 2 email
Use teacher email to contact re: trip
Prior learning
Y1 What is email
Y2 Digital footprints

Useful Websites:

www.Purple Mash.com
[Access the ProjectEvolve Toolkit | ProjectEVOLVE](#)
[Digiduck Stories | Childnet](#)