

Computing Skills

Expected by End of Year 5

E-Safety

- I protect my password and other personal information.
- I can explain why I need to protect myself and my friends and the best ways to do this, including reporting concerns to an adult.
- I know that anything I post online can be seen, used and may affect others.
- I can talk about the dangers of spending too long online or playing a game.
- I can explain the importance of communicating kindly and respectfully.
- I can discuss the importance of choosing an age- appropriate website or game.
- I can explain why I need to protect my computer or device from harm.
- I know which resources on the internet I can download and use.

Programing

- I can decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program.
- I can refine a procedure using repeat commands to improve a program.
- I can use a variable to increase programming possibilities.
- I can change an input to a program to achieve a different output.
- I can use 'if' and 'then' commands to select an action. I can talk about how a computer model can provide information about a physical system.
- I can use logical reasoning to detect and debug mistakes in a program.
- I use logical thinking, imagination and creativity to extend a program.

We are software developers – developing an interactive game using Scratch

Handling Data

- I can use a spreadsheet and database to collect and record data.
- I can choose an appropriate tool to help me collect data.
- I can present data in an appropriate way.
- I can search a database using different operators to refine my search.
- I can talk about mistakes in data and suggest how it could be checked.

Suggested software: Excel

Multimedia

- I can use text, photo, sound and video editing tools to refine my work.
- I can use the skills I have already developed to create content using unfamiliar technology.
- I can select, use and combine the appropriate technology tools to create effects that will have an impact on others.
- I can select an appropriate online or offline tool to create and share ideas.
- I can review and improve my work and support others to improve their work.

We are artists – fusing geometry and art (creativity)

Summer: MGL taught unit -Google Sketch Up 3D design/ SAMs Labs

Programing a movable vechile.

We are architects – creating a virtual space

Technology and Our Lives

- I can describe different parts of the internet.
- I can use different online communication tools for different purposes.
- I can use a search engine to find appropriate information and check its reliability.
- I can recognise and evaluate different types of information I find on the World Wide Web.
- I can describe the different parts of a webpage.
- I can find out who the information on a webpage belongs to.

We are cryptographers – cracking codes

We are web developers –To compare online encyclopedias for doing Internet research on.

*Optional accompanying Rising Stars Unit