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| **Computing Skills***Expected by End of Year 5* |
| **E-Safety** | **Programing** |
| * 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.
 | * 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** | **Multimedia**  |
| * 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* | * 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.*  |

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| **Computing Assessment***Expected by End of Year 5* |
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 | * I can decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program.
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*We are software developers – developing an interactive game using Scratch* |
| **Below Expectation**  | **Above Expectation** | **Below Expectation** | **Above Expectation** |
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| **Below Expectation** | **Above Expectation** | **Below Expectation** | **Above Expectation** |
| **Technology and Our Lives** |
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*We are cryptographers – cracking codes* *We are web developers –To compare online encyclopedias for doing Internet research.* | **Below Expectation** | **Above Expectation** |