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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* | | | |
| **E-Safety** | | **Programing** | |
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| **Below Expectation** | **Above Expectation** | **Below Expectation** | **Above Expectation** |
| **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* | |
| **Below Expectation** | **Above Expectation** | **Below Expectation** | **Above Expectation** |
| **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.* | | **Below Expectation** | **Above Expectation** |