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| **Computing Skills**  *Expected by End of Year 6* | |
| **E-Safety** | **Programing** |
| * I protect my password and other personal information. * I can explain the consequences of sharing too much information about myself online. * I support my friends to protect themselves and make good choices online, including reporting concerns to an adult. * I can explain the consequences of spending too much time online or on a game. * I can explain the consequences to myself and others of not communicating kindly and respectfully. * I protect my computer or device from harm on the internet. | * I can deconstruct a problem into smaller steps, recognising similarities to solutions used before. * I can explain and program each of the steps in my algorithm. * I can evaluate the effectiveness and efficiency of my algorithm while I continually test the programming of that algorithm. * I can recognise when I need to use a variable to achieve a required output. * I can use a variable and operators to stop a program. * I can use different inputs (including sensors) to control a device or onscreen action and predict what will happen. * I can use logical reasoning to detect and correct errors in algorithms and programs. * • To learn how to write code using a text-based language (e.g. Python and/or HTML).   *Autumn Term: MGL taught unit ‘Website Design’ (HTML written code).*  *We are app developers – developing a simple mobile phone app (programming)* |
| **Handling Data** | **Multimedia** |
| * I can plan the process needed to investigate the world around me. * I can select the most effective tool to collect data for my investigation. * I can check the data I collect for accuracy and plausibility. * I can interpret the data I collect. I can present the data I collect in an appropriate way. * I use the skills I have developed to interrogate a database.   *Suggested software: Excel* | * I can talk about audience, atmosphere and structure when planning a particular outcome. * I can confidently identify the potential of unfamiliar technology to increase my creativity. * I can combine a range of media, recognising the contribution of each to achieve a particular outcome. * I can tell you why I select a particular online tool for a specific purpose. * I can be digitally discerning when evaluating the effectiveness of my work and the work of others.   STEM Project: ‘Robot Wars’ – programming a ‘robot’ using Lego Wedo  *We are interface designers – design an interface for an app (communication/collaboration)* |
| **Technology and Our Lives** | |
| * I can tell you the internet services I need to use for different purposes. * I describe how information is transported on the internet. * I can select an appropriate tool to communicate and collaborate online. * I can talk about the way search results are selected and ranked. I can check the reliability of a website. * I can tell you about copyright and acknowledge the sources of information that I find online.   *We are app planners – planning the creation of a mobile app (computer networks)* | |

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| **Computing Assessment**  *Expected by End of Year 6* | | | |
| **E-Safety** | | **Programing** | |
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| **Below Expectation** | **Above Expectation** | **Below Expectation** | **Above Expectation** |
| **Handling Data** | | **Multimedia** | |
| * I can plan the process needed to investigate the world around me. * I can select the most effective tool to collect data for my investigation. * I can check the data I collect for accuracy and plausibility. * I can interpret the data I collect. I can present the data I collect in an appropriate way. * I use the skills I have developed to interrogate a database.   *Suggested software: Excel* | | * I can talk about audience, atmosphere and structure when planning a particular outcome. * I can confidently identify the potential of unfamiliar technology to increase my creativity. * I can combine a range of media, recognising the contribution of each to achieve a particular outcome. * I can tell you why I select a particular online tool for a specific purpose. * I can be digitally discerning when evaluating the effectiveness of my work and the work of others.   STEM Project: ‘Robot Wars’ – programming a ‘robot’ using Lego Wedo  *We are interface designers – design an interface for an app (communication/collaboration)* | |
| **Below Expectation** | **Above Expectation** | **Below Expectation** | **Above Expectation** |
| **Technology and Our Lives** | | | |
| * I can tell you the internet services I need to use for different purposes. * I describe how information is transported on the internet. * I can select an appropriate tool to communicate and collaborate online. * I can talk about the way search results are selected and ranked. I can check the reliability of a website. * I can tell you about copyright and acknowledge the sources of information that I find online.   *We are app planners – planning the creation of a mobile app (computer networks)* | | **Below Expectation** | **Above Expectation** |