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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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* 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)* |
| **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.
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* I can interpret the data I collect. I can present the data I collect in an appropriate way.
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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.
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* 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** |