



## Computing Whole School Half Termly Overview (Autumn 1 2019)

| Year group    | Topic   | Key Assessment Criteria   |
|---------------|---|---|
| <b>Year 1</b> | Online Safety & Exploring Purple Mash (1.1)<br>(Digital Literacy)<br>Pictograms (1.3)<br>(Information Technology) | <ul style="list-style-type: none"> <li>I can use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about the content or contact on the internet or other online technologies. (Ongoing)</li> <li>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> </ul>  |
| <b>Year 2</b> | Computer science and digital literacy<br><br>Coding (2.1) & E safety (2.2)  | <ul style="list-style-type: none"> <li>I can understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>I can create and debug simple programs.</li> <li>I can use logical reasoning to predict the behaviour of simple programs.</li> <li>I can use technology safely and respectfully, keeping personal information private.</li> <li>I can identify where to go for help and support if I have concerns about content or contact on the internet or other online technologies. (Ongoing)</li> </ul>  |
| <b>Year 3</b> | Computer Science<br><br>Coding (3.1)  | <ul style="list-style-type: none"> <li>I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</li> <li>I can use sequence, selection and repetition in programs; work with variables and various forms of input and output.</li> <li>I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Ongoing)</li> </ul> |

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| <b>Year 4</b> | Computer Science & Information Technology<br><br>Coding (4.1)    | <ul style="list-style-type: none"> <li>• I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>• I can use sequence, selection and repetition in programs; work with variables and various forms of input and output.</li> <li>• I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs</li> <li>• I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> <li>• I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Ongoing)</li> </ul> |
| <b>Year 5</b> | Information Technology Databases (5.4)<br><br>Online safety(5.2) | <ul style="list-style-type: none"> <li>• I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</li> <li>• I can understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration</li> <li>• I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour, identify a range of ways to report concerns about content and contact. (Ongoing)</li> </ul>   |
| <b>Year 6</b> | Computer Science & Information Technology<br><br>Coding (6.1)    | <ul style="list-style-type: none"> <li>• I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>• Use sequence, selection and repetition in programs; work with variables and various forms of input and output</li> <li>• Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>• Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> <li>• I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Ongoing)</li> </ul>                   |



## Computing Whole School Half Termly Overview (Autumn 2 2019)

| Year group    | Topic  | Key Assessment Criteria  |
|---------------|--|--|
| <b>Year 1</b> | Grouping and Sorting (1.2)<br>(Information Technology)<br>Lego Builders<br>(1.4)<br>(Computer Science) | <ul style="list-style-type: none"> <li>• I can understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>• I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> </ul>  |
| <b>Year 2</b> | Information Technology<br><br>Spreadsheets (2.3)   | <ul style="list-style-type: none"> <li>• I can use technology purposefully to create, organise, store, manipulate and retrieve digital content</li> <li>• I can use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about the content or contact on the internet or other online technologies. (Ongoing)</li> </ul>  |
| <b>Year 3</b> | Digital Literacy & Computer Science<br>Online Safety (3.2)<br>Spreadsheets(3.3)                        | <ul style="list-style-type: none"> <li>• I can use sequence, selection and repetition in programs; work with variables and various forms of input and output.</li> <li>• I can use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about the content or contact on the internet or other online technologies. (Ongoing)</li> </ul>   |
| <b>Year 4</b> | Computer Science & Digital Literacy<br><br>Online safety (4.2)<br>Logo (4.5)                           | <ul style="list-style-type: none"> <li>• I can understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration</li> <li>• I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>• I can use sequence, selection and repetition in programs; work with variables and various forms of input and output.</li> <li>• I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> </ul> |

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| <b>Year 5</b> | Information Technology<br>3D modelling (5.6)   | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>   |
| <b>Year 6</b> | Computer Science, Information Technology & Digital Literacy<br><br>Online Safety (6.2)<br>Spreadsheets (6.3) | <ul style="list-style-type: none"> <li>I can understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.</li> <li>I can use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> <li>I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</li> </ul> |



## Computing Whole School Half Termly Overview (Spring 1 2020)

| Year group    | Topic  | Key Assessment Criteria   |
|---------------|--|---|
| <b>Year 1</b> | Maze Explorers (1.5)<br>(Computer Science)   | <ul style="list-style-type: none"> <li>I can understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>I can create and debug simple Programs.</li> </ul>  |
| <b>Year 2</b> | Information Technology & digital literacy<br>Questioning (2.4)& effective searching(2.5) | <ul style="list-style-type: none"> <li>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>I can recognise common uses of information technology beyond school.</li> </ul>  |
| <b>Year 3</b> | Information Technology<br>Touch Typing (3.4)   | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>   |
| <b>Year 4</b> | Information Technology<br>Spreadsheets(4.3)  | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>   |
| <b>Year 5</b> | Coding (5.1)<br>Computer Science,<br>Information Technology &<br>Digital Literacy        | <ul style="list-style-type: none"> <li>I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts</li> <li>I can use sequences, selection and repetition in programs; work with variables and various forms of input and output.</li> <li>I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul> |
| <b>Year 6</b> | Computer Science,<br>Information Technology &<br>Digital Literacy<br><br>Blogging (6.4)  | <ul style="list-style-type: none"> <li>I can understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.</li> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>  |



## Computing Whole School Half Termly Overview (Spring 2 2020)

| Year group    | Topic  | Key Assessment Criteria  |
|---------------|--|--|
| <b>Year 1</b> | Coding<br>(1.7)<br><br>(Computer Science)                                  | <ul style="list-style-type: none"> <li>I can understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions.</li> <li>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>I can create and debug simple programs.</li> <li>I can use logical reasoning to predict the behaviour of simple programs.</li> </ul>   |
| <b>Year 2</b> | Information Technology<br>Creating pictures(2.6)                           | <ul style="list-style-type: none"> <li>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>I can recognise common uses of information technology beyond school.</li> </ul>   |
| <b>Year 3</b> | Computer Science, Digital Literacy & Information Technology<br>Email (3.5) | <ul style="list-style-type: none"> <li>I can understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.</li> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul> |
| <b>Year 4</b> | Information Technology<br><br>Writing for different audiences (4.4)        | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> <li>I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Ongoing)</li> </ul>              |
| <b>Year 5</b> | Information Technology & Computer Science<br><br>Game Creator (5.5)        | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</li> <li>I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> </ul>                    |
| <b>Year 6</b> | Computer Science & Information Technology<br><br>Text Adventures (6.5)     | <ul style="list-style-type: none"> <li>I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</li> <li>I can use sequence, selection and repetition in programs; work with variables and various forms of input and output.</li> <li>I can use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</li> </ul>   |



## Computing Whole School Half Termly Overview (Summer 1 2020)

| Year group    | Topic   | Key Assessment Criteria  |
|---------------|---|--|
| <b>Year 1</b> | Animated Story Books (1.6)                        | <ul style="list-style-type: none"> <li>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> </ul>   |
| <b>Year 2</b> | Information Technology Making music(2.7)          | <ul style="list-style-type: none"> <li>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>I can recognise common uses of information technology beyond school.</li> </ul>   |
| <b>Year 3</b> | Information Technology Branching Data bases (3.6) | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> <li>I can use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> </ul>   |
| <b>Year 4</b> | Information Technology Animation (4.6)            | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>  |
| <b>Year 5</b> | Digital Literacy Spreadsheets (5.3)               | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</li> <li>I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Ongoing)</li> </ul> |
| <b>Year 6</b> | Computer Science Networks (6.6)                   | <ul style="list-style-type: none"> <li>I can understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.</li> <li>I can use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. (Ongoing)</li> </ul>  |



## Computing Whole School Half Termly Overview (Summer 2 2020)

| Year group    | Topic  | Key Assessment Criteria  |
|---------------|--|--|
| <b>Year 1</b> | Spreadsheets (1.8) (Information Technology)<br>(1.9) (Digital Literacy)                          | <ul style="list-style-type: none"> <li>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>I can recognise common uses of information technology beyond school (Technology Outside School)</li> </ul>  |
| <b>Year 2</b> | Information Technology Presenting ideas (2.8)  | <ul style="list-style-type: none"> <li>I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.</li> <li>I can recognise common uses of information technology beyond school.</li> </ul>   |
| <b>Year 3</b> | Information Technology Simulations(3.7)<br>Graphing (3.8)  | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>  |
| <b>Year 4</b> | Information Technology & Computer Science Effective Search (4.7)<br>Hardware Investigators (4.8) | <ul style="list-style-type: none"> <li>I can understand computer networks, including the Internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.</li> <li>I can use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</li> </ul> |
| <b>Year 5</b> | Information Technology Concept maps (5.7)  | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information</li> </ul>   |
| <b>Year 6</b> | Information Technology Quizzing (6.7)  | <ul style="list-style-type: none"> <li>I can select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</li> </ul>  |