St Mary's Catholic Primary School - Curriculum 2014/2015

CURRICULUM OVERVIEW FOR COMPUTING

| | Reception/Year 1 | Year 1/2 | Year 3/4 | Year 4/5 | Year 5/6 |
|---|---|---|---|---|---|
| Autumn Term<br><br>*E-Safety* | Select and use technology safely for particular purposes. | Know where to go for help and support when they have concerns about content or contact on the internet or other online material. | Use technology safely and respectfully, keeping personal information private. | | |
| | | | Recognise acceptable/ unacceptable behaviour. | Recognise acceptable/ unacceptable behaviour. Identify how to report a concern. | Identify a range of ways to report concerns about content and contact. |
| Spring Term<br><br>*Programming* | Recognise that a range of technology is used in places such as homes and schools.<br><br>Select and use technology for particular purposes.<br><br>Create simple programs. | Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions<br>.<br>Create and debug simple programs.<br><br>Use logical reasoning to predict the behaviour of simple programs.<br><br>Recognise common uses of information technology beyond school. | Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. | | |
| | | | Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.<br><br>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. | Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.<br><br>Design and write programs that accomplish specific goals. | Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.<br><br>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.<br><br>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. |

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| | Reception/Year 1 | Year 1/2 | Year 3/4 | Year 4/5 | Year 5/6 |
|---|---|---|---|---|---|
| Summer Term | Recognise that a range of technology is used in places such as homes and schools. Select and use technology for particular purposes.<br><br>Store and retrieve data and know some ways in which information is represented digitally. | Store and retrieve data and know some ways in which information is represented digitally. | Select, use and combine a variety of software to accomplish goals. | | |
| **_Handling Data_** | | | Use a range of digital devices to accomplish given goals, including collecting and evaluating information. | Select a range of digital devices to accomplish given goals, including collecting, Analysing and presenting data and information. | Select and combine a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information. |
| **_Multimedia_** | | Use technology purposefully to create, organise, store, manipulate and retrieve digital content. | | Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. | 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. |