



St Joseph's Catholic Primary School

Computer Science Progression of skills

Using code .org

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| <p>Pupils will learn to program using commands like loops and events.</p> <p>Pupils will meaningfully collaborate with others.</p> <p>Pupils will investigate different problem-solving techniques, persist in the face of challenging tasks, and learn about internet safety.</p> <p>Key Vocabulary Sequencing Loops Events Digital Citizenship</p> | <p>Pupils will learn more sophisticated unplugged activities and work through a greater variety of puzzles.</p> <p>Pupils will learn the basics of programming, collaboration techniques, investigation and critical thinking skills, persistence in the face of difficulty, and internet safety.</p> <p>Key Vocabulary Sequencing Loops Events Copyright and Creativity Digital Citizenship</p> | <p>Pupils will create programs with sequencing, loops, and events.</p> <p>Pupils will investigate problem-solving techniques and develop strategies for building positive communities both online and offline.</p> <p>Pupils will create interactive games that they can share.</p> <p>Key Vocabulary Sequencing Loops Events Digital Citizenship Binary</p> | <p>Pupils will review the concepts found in earlier courses, including loops and events.</p> <p>Pupils will develop their understanding of algorithms, nested loops, while loops, conditionals, and more.</p> <p>Key Vocabulary Events Nested Loops While/Until Loops If/Else Conditionals Digital Citizenship</p> | <p>Pupils will learn to make fun, interactive projects that reinforce what they'll learn about online safety.</p> <p>Pupils will engage in more complex coding.</p> <p>Pupils will learn about nested loops, functions, and conditionals.</p> <p>Key Vocabulary Sequencing Debugging Loops Nested Loops Conditionals</p> | <p>Pupils will look at how users make choices in the apps they use.</p> <p>Pupils will learn to make a variety of Sprite Lab apps that also offer choices for the user.</p> <p>Pupils will learn more advanced concepts, including variables and "for" loops.</p> <p>Key Vocabulary Events Conditionals Functions Digital Citizenship Copyright and Creativity</p> |