



# Holy Family Catholic High School



| Subject  | Year  | Term  |
|--|---|---|
| Computer Science   |   |   |
| <b>Topic</b>   |   |   |
| Boolean Logic  |   |   |
| <b>Content - Intent</b>  |   |   |
| <b>Prior Learning (Topic):</b> Key Stage 3 National Curriculum   |   |   |
| <p>Logic and programming.<br/>           How circuits are created in the CPU and circuit boards, truth tables and simplification. And, OR Not logic gates combined. Apply logic to Truth and Trace tables to produce solutions to a given problem. Have an understanding of Boolean Logic and where it is applied.</p> |   |   |
| <b>Future Learning:</b> Networks, Programming  |   |   |
| <b>What Knowledge and Skills will be Taught (Implementation)</b>   |   | <b>How will your understanding be assessed and recorded (Impact)</b>  |
| <p>Logic, build truth tables from AND OR and NOT. These are the basis for all logical operations. Outline syntax of pseudocode and how it should be used to solve problems, with particular reference to problems likely to be experienced in the exam.</p>  |   | <p>A series of problems from past exam papers, attempted in class and marked in class using peer assessment. Revision will be done at home through a series of exercises outlined in the course textbook.</p> |
| <b>How can parents help at home?</b>   |   |   |
| Parents can help by ensuring revision and homework is completed.   |   |   |
| <b>Helpful further reading and discussion (Including reading and Vocabulary List)</b>  |   |   |
| <p><b>Reading</b><br/>           CGP Computer Science revision book<br/>           GCSE pod<br/>           Smart Revise<br/>           Computer Science UK<br/>           Teach ICT<br/>           ISAAC Computing<br/>           YouTube – Craig ‘n’ Dave</p>   | <p><b>Vocabulary List</b><br/>           Boolean<br/>           Operators<br/>           Truth Tables<br/>           Trace Tables<br/>           Logical AND<br/>           Logical OR<br/>           Logical NOT</p> |   |