Swanwick Hall School Long Term Planning

Year 9 Subject: Computing

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| Learning cycle | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 |
| 105/09/22 to 21/10/22 | **Python coding***Hello world!* | **Python coding***Input and output* | **Python coding**Data types | **Python coding***Selection; if, elif, else* | **Python coding***Iteration; while, for* | **checkpoint week***Create a maths quiz.* | **gap week** |  |
| 231/10/22- 22/12/22 | **3D modelling and animation***Move, rotate, scale, colour* | **3D modelling and animation***Animation, naming and parenting* | **3D modelling and animation***Complex models and colours* | **3D modelling and animation***Organic modelling* | **3D modelling and animation***Lights, camera, render* | **3D modelling and animation***Assessed project (2 lessons)* | **checkpoint week***Assessed project (2 lessons)* | **gap week**Python Christmas scene… |
| 39/1/23 – 3/3/23 | **Binary and Hexadecimal***Understanding Binary.* | **Binary and Hexadecimal***Converting between binary and denary.* | **Binary and Hexadecimal***Binary shift and binary addition.* | **Binary and Hexadecimal***What is hexadecimal and why is it used?* | **Binary and Hexadecimal***Converting between binary, denary and hexadecimal.* | **checkpoint week** CUMULATIVE ASSESSMENTS | **gap week** |  |
| 46/3/23 – 12/5/23 | **Program planning – Flow charts***Control Systems* | **Program planning – Flow charts***Flowol and flow chart symbols* | **Program planning – Flow charts***Control systems – The Lighthouse* | **Program planning – Flow charts***Control systems – Traffic lights* | **Program planning – Flow charts***The car park barrier* | **Program planning – Flow charts***Assessed project (2 lessons)* | **checkpoint week** | **gap week** |
| 515/5/23 – 3/7/23 | **Networks***Computer networks and protocols* | **Networks***Networking hardware* | **Networks***Wired and wireless networks* | **Networks***The internet* | **Networks***The World Wide Web* | **checkpoint week** CUMULATIVE ASSESSMENTS | **gap week** |  |
| mini unit10/7/23 – 21/7/23 | **PyGame** | **PyGame** |  |  |  |  |  |  |