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 |
| 1  05/09/22  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** |  |
| 2  31/10/22- 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… |
| 3  9/1/23 – 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** |  |
| 4  6/3/23 – 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** |
| 5  15/5/23 – 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 unit  10/7/23 – 21/7/23 | **PyGame** | **PyGame** |  |  |  |  |  |  |