

Year 7 *Computing* – Long Term Plan 2018-19

| Week 1 3 Sept. | Week 2 10 Sept. | Week 3 17 Sept. | Week 4 24 Sept. | Week 5 1 Oct. | Week 6 8 Oct. | Week 7 15 Oct. |
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| Logins School Expectations | e-safety | Stranger Danger Online Bullying | 1st to a Million Sexting | Phishing Malware Viruses Trojans Firewalls | Synoptic Test Bias & Reliability | Revision and consolidation Trust Revision booklets Copyright/Sources/Pl: sum |
| Week 1 5 Nov. | Week 2 12 Nov. | Week 3 19 Nov. | Week 4 26 Nov. | Week 5 3 Dec. | Week 6 10 Dec. | Week 7 17 Dec. |
| Decomposition | Synoptic Test Pattern Recognition | Synoptic Test Abstraction | Synoptic Test Algorithms | Synoptic Test Evaluating Solutions | <i>PRAG Progress week Consolidation Tests</i> | Hour Of Code |
| Week 1 7 Jan. | Week 2 14 Jan. | Week 3 21 Jan. | Week 4 28 Jan. | Week 5 4 Feb. | Week 6 11 Feb. | |
| Hardware Computer Devices Hardware/Software are Storage | Logic & Logic gates | Synoptic Test Software Application Software | Systems Software Interfaces Synoptic Test | Revision and consolidation Trust Revision booklets. Consolidation Tests | CPU CPU Components | |
| Week 1 25 Feb. | Week 2 4 Mar. | Week 3 11 Mar. | Week 4 18 Mar. | Week 5 25 Mar. | Week 6 1 April | |
| Clock Speed Cores Cache | FDEC | Synoptic Test Introduction Networks | WAN/LAN Star/Ring/Bus Advantages & Disadvantages Ping/Traceroute | <i>PRAG Progress week Consolidation Tests</i> | Search Engines Synoptic Test | |
| Week 1 22 April | Week 2 29 April | Week 3 6 May | Week 4 13 May | Week 5 20 May | | |
| Binary Binary to Denary | Denary to Binary | Binary Addition Overflow | Revise, review and Improve Synoptic Test Trust Revision booklets | Representing text, images and sound Synoptic Test | | |
| Week 1 3 June | Week 2 10 June | Week 3 17 June | Week 4 24 June | Week 5 1 July | Week 6 8 July | Week 7 15 July |

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| Impact on Society Long answer questions | Impact on Society Legal Long answer questions | .Revision | Assessment weeks 3 GL Exam | Assessment weeks 3 Exam Duke of York Award | Duke of York Award | Duke of York |
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| Week 1 3 Sept. | Week 2 10 Sept. | Week 3 17 Sept. | Week 4 24 Sept. | Week 5 1 Oct. | Week 6 8 Oct. | Week 7 15 Oct. |
|------------------------------------|--------------------------------------|--|---------------------------------------|---|---|--------------------|
| Introduction to programming theory | Creating a program from an algorithm | Synoptic Test Programming Arithmetic | Variables Naming rules | Data Types Working with Variable | Working with Strings | Input & Output The |
| Week 1 5 Nov. | Week 2 12 Nov. | Week 3 19 Nov. | Week 4 26 Nov. | Week 5 3 Dec. | Week 6 10 Dec. | Week 7 17 Dec. |
| Sequence Selection Iteration | If -else elif | Synoptic Test Iteration For Loops | While Loops & Errors | Infinite Loops Synoptic Test Logic | <i>PRAG Progress week Battery Tests</i> | Duke of York |
| Week 1 7 Jan. | Week 2 14 Jan. | Week 3 21 Jan. | Week 4 28 Jan. | Week 5 4 Feb. | Week 6 11 Feb. | |
| Boolean Logic | Boolean Expressions | Programming using comparative operators task | Using AND | Using OR | Using NOT Synoptic Test | |
| Week 1 25 Feb. | Week 2 4 Mar. | Week 3 11 Mar. | Week 4 18 Mar. | Week 5 25 Mar. | Week 6 1 April | |
| Arrays Lists | Arrays and Lists Synoptic Test | Procedures, Functions and Calls | Procedures, Functions and Calls | <i>PRAG Progress week Synoptic Test</i> | Errors and Documenting Code | |
| Week 1 22 April | Week 2 29 April | Week 3 6 May | Week 4 13 May | Week 5 20 May | | |

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| Comments and documentation Synoptic Test | Algorithms Designing | Pseudocode Flowcharts | Flowcharts 2 Synoptic Test | Searching Serial Binary Comparison | | |
| Week 1 3 June | Week 2 10 June | Week 3 17 June | Week 4 24 June | Week 5 1 July | Week 6 8 July | Week 7 15 July |
| Sorting Bubble Bucket Comparison Synoptic Tests (Sorting & Searching) | Selection Algorithm Pseudocode Flowchart & Code Synoptic Tests | Selection Algorithm Pseudocode Flowchart & Code Synoptic Test | Logical Reasoning Revision Battery of Tests | <i>PRAG Progress week</i> <i>Ethics</i> | Legislation | Hour of Code Duke of York |