

Scope and Sequence Document for: Year 8 Computer Science

Year:	Year 8 2023-2024	
Tutor	Ruth Benjamin Marvin	
Tutor Profile:	BSc (hons), MBA (Lond), PGCE (Sussex University)	
Resources required:	Login credentials for www.testandtrack.io (provided by tutor). Login credentials for the Learning Portal > moodle.immanuelonlineschool.com (Year 8 CS)	

*A = Assignment due before next lesson

*SE = Suggested extra work

*Q = Complete relevant quizzes for this topic

Note: All Lesson Tests must be completed as part of the lesson prep. Tests are auto-marking with instant feedback.

Lesson No.	NSW week No.	Week beginning Monday the:	Contents of study
1	1	04/09/23	Introduction to Computer Science and Coding
2	2	11/09/23	Python Programming - Selection, casting and more
Q			Complete relevant quizzes for this topic
3	3	18/09/23	Creating a complete app
4	4	25/09/23	Amazing iteration (loops) and coding magic
Q			Complete relevant quizzes for this topic
5	5	02/10/23	Assignment and Coding #1
6	6	09/10/23	Lesson 6 and Coding #2
A1			Assignment Due before next lesson.
7	7	16/10/23	Introducing Binary
	8	23/10/23	Half Term
8	9	30/10/23	Number Systems
Q			Complete relevant quizzes for this topic
9	10	06/11/23	Binary Decimal Conversions
10	11	13/11/23	Binary Addition
Q			Complete relevant quizzes for this topic
11	12	20/11/23	introduction to Web Design
12	13	27/11/23	HTML and IDEs
Q			Complete relevant quizzes for this topic
A2			Assignment Due before next lesson.

13	14	04/12/2023	Styles, CSS and Bootstrap
14	15	11/12/2023	JavaScript, Games and Version Control
Q			Complete relevant quizzes for this topic
	16	18/12/2023	Christmas Holiday
	17	25/12/2023	Christmas Holiday
	18	01/01/2024	Christmas Holiday
15	19	08/01/2024	Multiple Pages, Logo and Video
16	20	15/01/2024	Hosting and Domains
Q			Complete relevant quizzes for this topic
17	21	22/01/2024	Understanding the Internet
18	22	29/01/2024	What is the WWW
Q			Complete relevant quizzes for this topic
A3			Assignment Due before next lesson.
19	23	05/02/2024	What makes a good webpage
20	24	12/02/2024	How does the internet send data
	25	19/02/2024	Half Term
21	26	26/02/2024	Introducing Cryptocurrency
22	27	04/03/2024	Obtaining Crypto
Q			Complete relevant quizzes for this topic
23	28	11/03/2024	Dangers and problems
24	29	18/03/2024	NFTs
Q			Complete relevant quizzes for this topic
A4			Assignment Due before next lesson.
25	30	25/03/2024	Quantum Computing
	31	01/04/2024	Easter Holiday
	32	08/04/2024	Easter Holiday
	33	15/04/2024	Easter Holiday
26	34	22/04/2024	Past Present and Future Tech
27	35	29/04/2024	Introduction to Game Design
Q			Complete relevant quizzes for this topic
28	36	06/05/2024	Coding Part 2 of our awesome game
29	37	13/05/2024	Completing our game
Q			Complete relevant quizzes for this topic

30	38	20/05/2024	Re-creating Flappy birds in one lesson
A5			Assignment Due before next lesson.
39		27/05/2024	Half Term
31	40	03/06/2024	Charles Babbage
Q			Complete relevant quizzes for this topic
32	41	10/06/2024	Bill Gates
Q			Complete relevant quizzes for this topic
33	42	17/06/2024	Elon Musk
Q			Complete relevant quizzes for this topic
A6			Assignment Due before next lesson.
34	43	24/06/2024	Tim Berners Lee, Hedi Lamar (and Wifi) and Rest of the Computer Scientists (see additional lessons)
*			Extra lessons available as extension work