



Year 10 CS Summer Support 2021

Computer Science

Advice and support for all Year 10 students
Regular independent study will aid the recall of knowledge and enhance your skills to ensure targets are met next year

Tick when complete

- Complete the CS summer revision booklet. Aim to complete one whole section each week.
- Practise your algorithm skills, writing, completing, finding, and correcting errors in algorithms.
- Practise Python programming using Visualiser. Complete Python challenges at least two per week.
- Learn ERL (Exam Reference Language) using the 'cheat sheet' provided in revision booklet.
- Complete your own PLC for both exam paper topics. Identify strengths and weaknesses.
- Starting with weaknesses - revise the topic using Know It All Ninja.
- Take the quizzes in Ninja after you have studied a topic. I can see your work in Ninja.
- Watch Craig 'n' Dave OCR CS YouTube videos for your weak topics. Make notes when watching vids.

Internet websites and apps for study support

Know It All Ninja website (KIAN)

Seneca - OCR GCSE CS

Pyto App

Python Visualiser

w3schools.com/python/

Study areas to practise or complete	Where to find the information to revise	Tick when complete
Designing, creating, refining algorithms		
- Creating efficient flowcharts	KIAN (algorithm design - flowcharts)	
- Exam Reference Language (ERL)/pseudocode	KIAN (algorithm design - ERL)	
- Trace tables - creating, completing	KIAN (algorithm design - improving algorithms)	
- Searching algorithms - linear and binary	KIAN (searching and sorting algorithms)	
Programming fundamentals		
- Constructs - sequence, selection, iteration	KIAN (sequence selection iteration)	
- Arithmetic and Boolean operators	KIAN (programming fundamentals and data types)	
- Character and string, casting	KIAN (programming fundamentals and data types)	
- Use of sub-programs - functions	KIAN (sub-programs)	
- Random number generation	W3C.com	
Key skills to practise	Where to find support on how to practise	Tick when complete
Master your skills on using iteration with For and While loops	W3C.com	
Flow charting using correct symbols and operators	KIAN	
Develop your understanding of Arrays and how they are used in programming	W3C.com	