COMPUTER SCIENCE TRANSITION WORK

WATCH......

BBC Click

https://www.bbc.co.uk/programmes/b006m9ry

You can find more information about computer science and videos to watch here....

https://www.computerscience.org/

A collection of TED Talks about computers

https://www.ted.com/topics/computers

READ...

Life 3.0 – Max Tegmark

Born Digital – Robert Wigley

Information about Python....

https://www.w3schools.com/python/default.asp

Easy to read resources....

https://www.mrfraser.org/

GET AHEAD......

The first topic we will be covering in September is:

MORAL AND ETHICAL ISSUES IN COMPUTING

As the course progresses you will study:

The characteristics of contemporary processors, input, output and storage devices.

Types of software and the different methodologies used to develop software

Data types, data structure and algorithms

You will need to develop your programming skills. We use **Python** as our main language for this course.

COURSE DETAILS...

EXAM BOARD – OCR

UNIT 1 – Computer Systems

UNIT 2 – Algorithms & programming

UNIT 3 – Practical Programming Project

Units 1 & 2 make up 80% of your final grade and are assessed by examinations

Unit 3 is worth 20%. This is a practical coding project and you will submit a report which covers the design, development, testing and evaluation of your coded solution.

WANT TO DIG DEEPER?....

Research different programming methodologies. For example, contrast object orientation with functional programming

http://www.doc.ic.ac.uk/~cclw05/topics1/prolog.html

TASK......

One area of the Computer Science Specification at A Level is legal, moral, ethical and cultural issues. This task is designed to get you thinking about key issues around computer science.

> 'Computer science is no more about computers than astronomy is about telescopes.'
>
> -Edsger Dijkstra-

Research one of the topics below:

- ✓ Computers in the workforce
- ✓ Automated decision making
- ✓ Artificial Intelligence
- ✓

1. Complete a report or presentation outlining how your topic of choice is going to impact society over the next 20 years. Your report or presentation should be around 400-500 words.

2. In no more than 100 words explain why you want to study computer science. Add this to your report or presentation.

Use the following links to support you in this task:

https://www.bbc.co.uk/bitesize/subjects/zxmh34j

https://futureoflife.org/background/benefits-risks-of-artificial-intelligence/?cn-reloaded=1

QUESTIONS, QUERIES AND COMMENTS.....

Use this section to make a note of anything you would like to ask your teacher about when the course starts in September.