A Level Computer Science

SUMMER PREP TASKS

The following are optional, but all will help you prepare for the A Level course content that you will begin studying in September.

PROGRAMMING

You will study a number of programming languages at A Level, including C#, HTML/CSS, JavaScript and SQL. The following all offer an interactive introduction to get you going with these languages.

- ❖ **Learn C#** (Codecademy) https://www.codecademy.com/learn/learn-c-sharp

- ❖ **Intro to HTML/CSS: Making webpages** (Khan Academy)
  https://www.khanacademy.org/computing/computer-programming/html-css

- ❖ **HTML/JS: Making webpages interactive** (Khan Academy)
  https://www.khanacademy.org/computing/computer-programming/html-css-js

- ❖ **Intro to SQL: Querying and managing data** (Khan Academy)
  https://www.khanacademy.org/computing/computer-programming/sql

WATCHING

The following are great documentaries that look at key topics related to Computer Science. They can currently be viewed for free on YouTube.

- ❖ AlphaGo – The Movie https://www.youtube.com/watch?v=WXuK6gekU1Y

- ❖ The Secret Rules of Modern Living: Algorithms
  https://www.youtube.com/watch?v=kiFfp-HAu64

READING

Try reading one of the following. These are all excellent bestsellers that can be brought from most book stores.

- ❖ **Hello World: How to be Human in the Age of the Machine** by Hannah Fry

- ❖ **Blood, Sweat, and Pixels: The Triumphant, Turbulent Stories Behind How Video Games Are Made** by Jason Schreier

- ❖ **The MANIAC** by Benjamín Labatut