

# WINDSOR SIXTH FORM SUMMER WORK



## Cambridge Technical: Extended Certificate in Applied Science

If you would like to get a head start by looking at what units you will be following next year take a look at the OCR website here:

<https://www.ocr.org.uk/qualifications/cambridge-technicals/applied-science/units/>

You will need to click on the extended certificate, 360 guided learning hours.

The course is a combination of biology, chemistry and physics materials. To get the best possible start in the science fundamentals unit you should work through some of the tasks below.

### **Biology**

Create a colourful and well-illustrated poster which displays three different cells, one should be a prokaryotic cell and two should be eukaryotic cells. Diagrams should show the ultrastructure of each cell with the function of each cell part explained.

### **Chemistry**

Create a PowerPoint that summarises the following topics:

- Atomic structure including examples of the electron structure of various elements
- Ionic bonding
- Covalent bonding

### **Physics**

Create flashcards to learn the unit prefixes including the name, symbol and standard form version of the number. For example: Tera, T,  $10^{12}$  or milli, m,  $10^{-3}$ .

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