



Level 3 Btec Applied Science – summer work 2016

These tasks will help to bridge the gap between the knowledge required at GCSE and that required at Level 3 Btec. You will need to carry out some research to enable you to complete these tasks. The work will need to be handed in at the beginning of year 12.

You must

- Complete a table to compare a prokaryotic cell with a eukaryotic cell.
- Draw a typical eukaryotic cell. Label the organelles. This should include: rough endoplasmic reticulum, smooth endoplasmic reticulum, Golgi apparatus, lysosomes, nucleus, centrioles, mitochondria and ribosomes. Annotate your diagram to describe the function of each organelle.

You should

- Produce a diagram of an atom showing its electronic structure. This should use an example of an atom of a specific element, and show the arrangement of electrons, protons and neutrons.

You could

- Explain how the Aufbau principle and the Bohr theory are used when drawing the electronic structure.