**Year 12 Homework Task**

Write a short report on:

‘How the orbital model for electrons at ‘A’ level is different from the ‘planetary’ model for electrons at GCSE’.

You will need to google the following points if you can’t remember from the lesson.

Please cover the following points:

* What evidence is there for electrons exhibiting wave type behaviour?
* What is meant by electron diffraction?
* What is an orbital?
* What is meant by the energy of electrons in atoms being quantized?
* Explain how an emission spectra (heating atoms up and the atoms emitting discrete coloured lines) provides evidence for quantisation of energy.
* What is electron spin?