

Preparing for A Level Physics – Induction Activity

This activity is designed to bridge the gap between GCSE Physics and A Level Physics. You must bring it to your first A Level Physics lesson where it will be submitted for marking.

The History of the Atom

There have been many different ideas and scientists involved in the development of the model of the atom. These include:

- Democritus
- John Dalton
- JJ Thomson
- Ernest Rutherford
- Niels Bohr
- Erwin Schrödinger

Your task is to create a detailed piece of work that covers the models of the atom, how they have changed, and any investigations that were undertaken to show new models of the atom. Your work can be presented in any way you chose, as long as it contains detailed scientific information.

Useful reading:

https://www.sisd.net/cms/lib/TX01001452/Centricity/Domain/1297/The_history_of_the_atom_Notes-condensed.pdf

Useful videos:

<https://www.youtube.com/watch?v=xazQRcSCRaY>

<https://www.youtube.com/watch?v=thnDxFdkzZs>

Additional reading/preparation:

<https://www.alevelphysicsonline.com/>

CrashCourse – Physics Playlist

https://www.youtube.com/watch?v=OoO5d5P0Jn4&list=PL8dPuuaLjXtN0ge7yDk_UA0ldZJdhwkoV

Kurzgesagt – Space Physics

https://www.youtube.com/watch?v=qEfPBt9dU60&list=PLFs4vir_WsTwEd-nJgVJCZPNL3HALHHpF