

Stepping up to Post-16 – Physics

Over the summer, try to use the following resources to prepare for the transition to A level Physics.

3 things to read:

These resources summarise some of the GCSE content that will be important for A level Physics. You should make sure you are familiar with the topics in these documents.

1. Vectors and Scalars



Vectors and
scalars.docx

2. Velocity and Acceleration



Velocity and
acceleration.docx

3. Electricity, Current and Voltage



Electricity - Current
and Voltage.docx

3 things to watch:

These videos give extra information on key A level Physics topics.

1. Vector and Scalars -

https://www.youtube.com/watch?v=02_OE0bY6k4&ab_channel=ZPhysics

2. Speed and Velocity -

https://www.youtube.com/watch?v=nMzigSuePoE&ab_channel=PhysicsOnline

3. Electricity and current -

https://www.youtube.com/watch?v=9OchTQ4Qfik&ab_channel=PhysicsOnline

3 things to listen to:

For a different approach to some interesting topics, try listening to the following talks and podcasts.

1. **Intro to electricity and the history of electricity -**

https://www.listennotes.com/podcasts/ohms-for-dummies/ep1ohms-law-the-discovery-of-9_uYaWmES4V/
<https://www.bbc.co.uk/sounds/play/b063zx1g>

2. **Fully Charged show podcast – Lightning fast chargers with Ian Johnston** – Interesting discussion about the new electric vehicle charging revolution. Links with circuit design electric current, resistance in wires and batteries. All sections in the electricity topic

3. **Interesting podcast on speed, linking to the intro of the mechanics topic –**

<https://www.bbc.co.uk/sounds/play/b063zx1g>