

Grade 9 checklist

5 skills. Tick each one when you can do it. For grade 9 you need the skills for the grades below it too.

Waves

- ☐ **Explain how P-waves reveal the core's size** P-waves change speed and refract at the core boundary, leaving a P-wave shadow zone whose position shows the size of the core. (Waves for detection and exploration)
- ☐ **Interpret diagrams of the Earth's radiation balance (HT)** Use given data or diagrams to explain changes in the temperature of the Earth's surface and atmosphere. (Perfect black bodies and radiation)

Magnetism and electromagnetism

- ☐ **Apply the generator effect to new situations** e.g. describe and explain the pd recorded as a magnet falls right through a coil. (Induced potential)
- ☐ **Link the coil's position to the induced pd** The pd is biggest when the plane of the coil is parallel to the field and zero when it is at right angles to the field. (Uses of the generator effect)
- ☐ **Combine both transformer equations in one problem** e.g. find the secondary pd from the turns ratio, then the secondary current from the power. (Transformers)

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