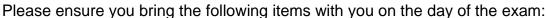


# **Ballymena Academy Physics Department**

# Year 10 Revision Checklist

### Winter 2025



- Pen(s) and pencil(s).
- 30cm ruler
- Scientific calculator



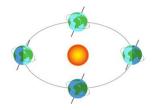


# The following is a list of topics which will be examined:

Please refer to the individual pupil notes booklets for a full list of learning outcomes.

## **Earth and Space:**

- Definitions of the terms Universe, galaxy, star, planet, and constellation.
- List the objects in our Solar System.
- List the eight major planets in order from the Sun.
- Define the terms day and year.



- Explain why the Earth experiences seasons and label a diagram of the Earth at different positions as it orbits around the Sun.
- Explain what causes a solar eclipse.
- Explain the difference between mass and weight and use the formula:

 $\mathbf{W} = \mathbf{M} \times \mathbf{Q}$  to solve problems.

### **Nuclear Physics:**

- Structure of the atom relative mass, charge and location of particles.
- Atomic notation number of protons and total number of protons and neutrons.

(# protons + # neutrons)



- Define what an Isotope is.
- Explain why some nuclei are radioactive.
- Describe the three types of radioactive emission Alpha, Beta & Gamma.
- Recall the penetrating power of Alpha, Beta & Gamma.
- Complete radioactive decay equations.



