

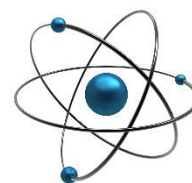


Ballymena Academy

Physics Department

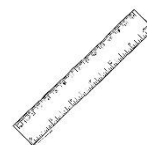
Year 9 Revision Checklist

Winter 2025



Please ensure you bring the following items with you on the day of the exam:

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

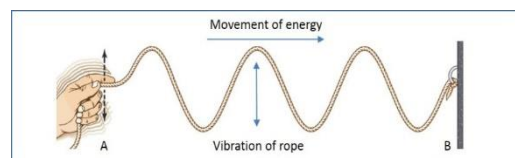


The following is a summary of the content of the winter examination paper:

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

Waves:

- Types of waves – transverse and longitudinal including examples.
- Definitions of **wavelength**, **frequency**, **amplitude**, **period** and **speed** of a wave.
- Labelling wave diagrams.
- Calculating frequency.



Sound:

- Producing sounds.
- Structure of the human ear.
- Range of human hearing.
- Speed of sound – calculations in solid, liquid or gas.
- Bell jar experiment – sound & light in vacuum.
- How amplitude & frequency affect sound – sketching graphs.
- Noise – measuring “loudness” of sounds.
- Reasons for reducing noise.
- Ways to reduce noise.

