

1. *Our solar system (SS Physics)*
 2. *The life cycle of a star (SS Physics)*
 3. *Orbital motion, natural and artificial satellites (SS Physics)*
 4. *Red shift (SS Physics)*
- End of Topic Assessment



1. Permanent and induced magnetism
 2. Magnetic forces and fields
 3. Electromagnetism
 4. *Flemings left-hand rule (SS Physics HT)*
 5. *Electric motors (SS Physics HT)*
 6. *Loudspeakers (SS Physics HT)*
 7. *Induced potential, transformers and the National Grid (SS Physics HT)*
- End of Topic Assessment



Final Exam Preparation

P8 Space physics (P only)

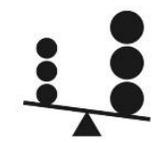
P7 Magnetism

YEAR 11

P5 Forces

P6 Waves

1. Waves in air, fluids and solids (including transverse and longitudinal waves)
 2. Properties of waves incl. RP of observation of water waves and waves in a solid
 3. *Reflection of waves (SS P) incl. RP for reflection of light by different materials*
 4. *Sound waves (SS P HT)*
 5. *Waves for detection and exploration (SS P HT)*
 6. Types of electromagnetic waves
 7. Properties of electromagnetic waves part 1 incl. RP infrared radiation
 8. Properties of electromagnetic waves part 2
 9. Uses and applications of electromagnetic waves
 10. *Lenses (SS P)*
 11. *Visible light (SS P)*
 12. *Black body radiation (SS P)*
- End of Topic Assessment



1. Forces and their interactions (contact and non-contact, scalar and vector)
 2. Gravity
 3. Resultant forces
 4. Work done and energy transfer
 5. Forces and elasticity including RP force and extension of a spring
 6. *Moments, levers and gears (SS Physics)*
 7. *Pressure and pressure differences in fluids (SS Physics)*
 8. Forces and motion incl. distance, displacement, speed, velocity and acceleration
 9. Forces, accelerations and Newton's Laws of Motion incl. RP. acceleration
 10. Stopping distance, reaction time and braking distance
 11. Momentum (H) and *changes in momentum (SS Physics HT)*
- End of Topic Assessment

Year 11 Learning Journey Physics