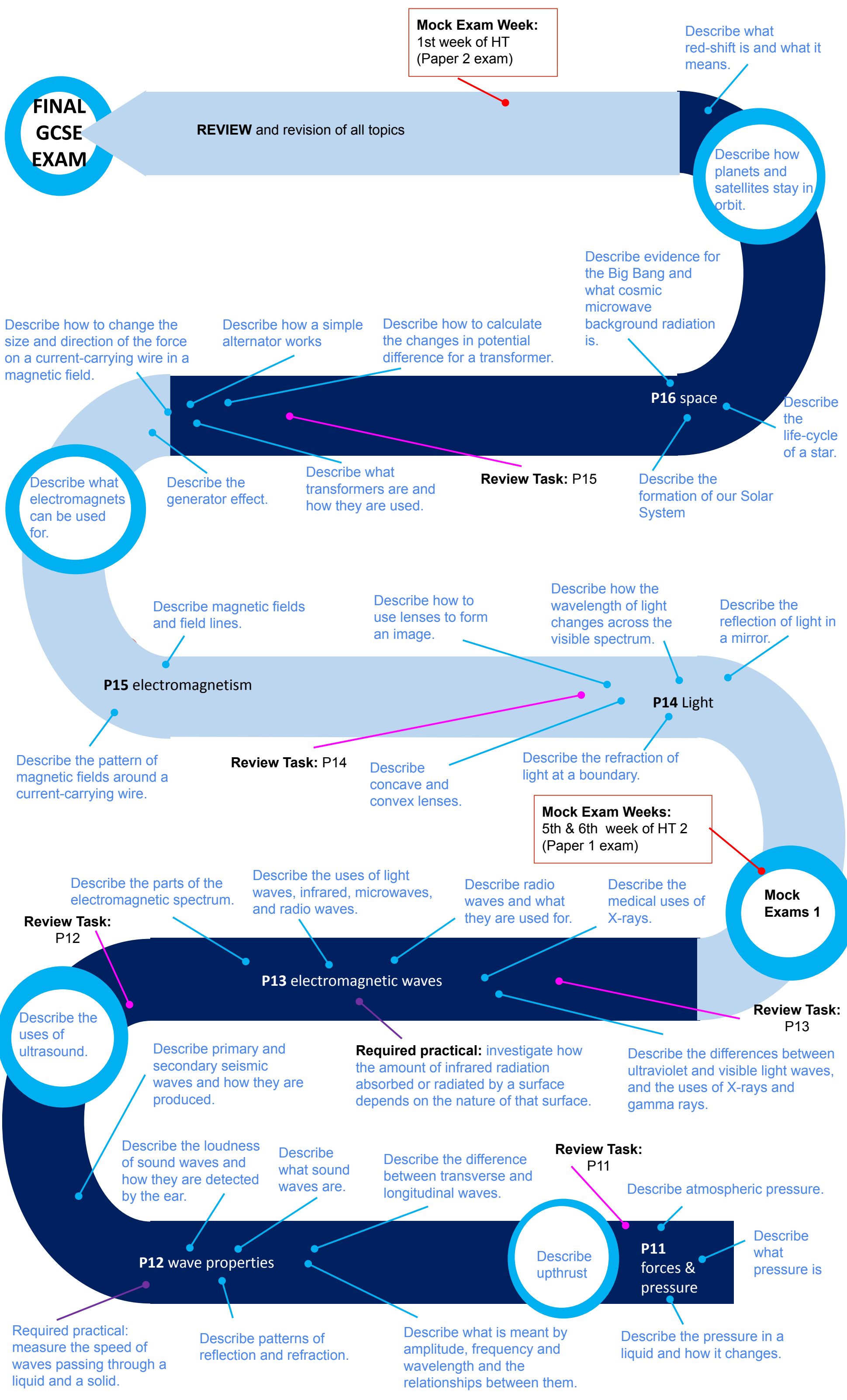




Physics AT PLECKGATE YEAR 11 LEARNING JOURNEY



**FINAL
GCSE
EXAM**

REVIEW and revision of all topics

Describe what red-shift is and what it means.

Describe how planets and satellites stay in orbit.

Describe how to change the size and direction of the force on a current-carrying wire in a magnetic field.

Describe how a simple alternator works

Describe how to calculate the changes in potential difference for a transformer.

Describe evidence for the Big Bang and what cosmic microwave background radiation is.

P16 space

Describe the life-cycle of a star.

Describe what electromagnets can be used for.

Describe the generator effect.

Describe what transformers are and how they are used.

Review Task: P15

Describe the formation of our Solar System

P15 electromagnetism

Describe magnetic fields and field lines.

Describe the pattern of magnetic fields around a current-carrying wire.

Review Task: P14

Describe how to use lenses to form an image.

Describe concave and convex lenses.

Describe how the wavelength of light changes across the visible spectrum.

P14 Light

Describe the reflection of light in a mirror.

Describe the refraction of light at a boundary.

Mock Exam Weeks:
5th & 6th week of HT 2
(Paper 1 exam)

Mock Exams 1

Review Task: P13

Describe the differences between ultraviolet and visible light waves, and the uses of X-rays and gamma rays.

Required practical: investigate how the amount of infrared radiation absorbed or radiated by a surface depends on the nature of that surface.

P13 electromagnetic waves

Describe the parts of the electromagnetic spectrum.

Describe the uses of light waves, infrared, microwaves, and radio waves.

Describe radio waves and what they are used for.

Describe the medical uses of X-rays.

Review Task: P12

Describe the uses of ultrasound.

Describe primary and secondary seismic waves and how they are produced.

Describe the loudness of sound waves and how they are detected by the ear.

Describe what sound waves are.

Describe the difference between transverse and longitudinal waves.

Review Task: P11

Describe atmospheric pressure.

Describe upthrust

P11 forces & pressure

Describe what pressure is

Required practical: measure the speed of waves passing through a liquid and a solid.

Describe patterns of reflection and refraction.

Describe what is meant by amplitude, frequency and wavelength and the relationships between them.

Describe the pressure in a liquid and how it changes.