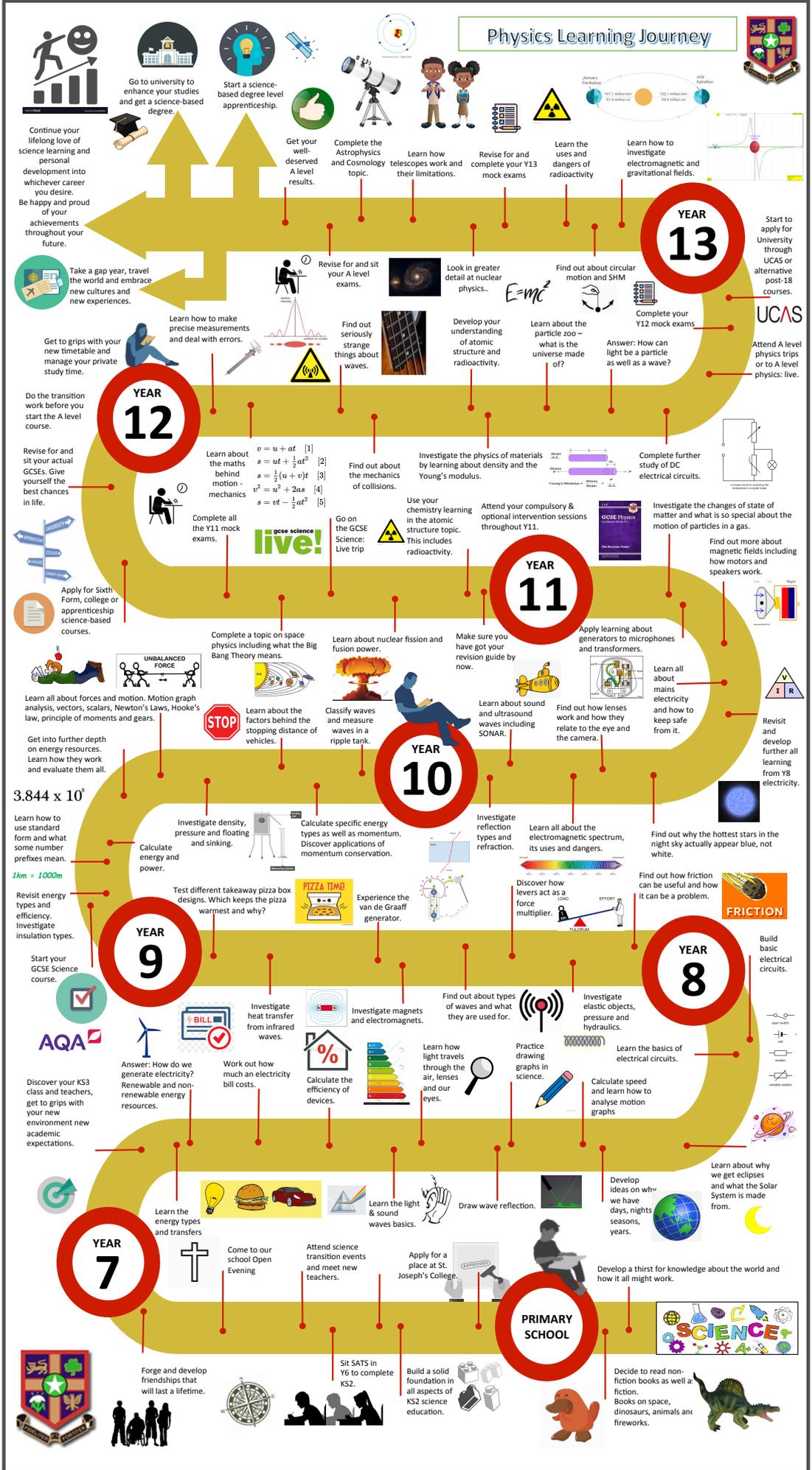


# Physics Learning Journey



**Go to university to enhance your studies and get a science-based degree.**

Continue your lifelong love of science learning and personal development into whichever career you desire. Be happy and proud of your achievements throughout your future.

**Start a science-based degree level apprenticeship.**

Get your well-deserved A level results.

**Complete the Astrophysics and Cosmology topic.**

Learn how telescopes work and their limitations.

**Revise for and complete your Y13 mock exams.**

Learn the uses and dangers of radioactivity.

**Learn how to investigate electromagnetic and gravitational fields.**

Start to apply for University through UCAS or alternative post-18 courses.

**Take a gap year, travel the world and embrace new cultures and new experiences.**

Get to grips with your new timetable and manage your private study time.

**Learn how to make precise measurements and deal with errors.**

Do the transition work before you start the A level course.

**Revise for and sit your A level exams.**

Find out seriously strange things about waves.

**Look in greater detail at nuclear physics.**

Develop your understanding of atomic structure and radioactivity.

**Find out about circular motion and SHM.**

Learn about the particle zoo - what is the universe made of?

**Complete your Y12 mock exams.**

Answer: How can light be a particle as well as a wave?

**Attend A level physics trips or to A level physics: live.**

**Revise for and sit your actual GCSEs. Give yourself the best chances in life.**

Apply for Sixth Form, college or apprenticeship science-based courses.

**Complete all the Y11 mock exams.**

Go on the GCSE Science: Live trip

**Use your chemistry learning in the atomic structure topic. This includes radioactivity.**

Attend your compulsory & optional intervention sessions throughout Y11.

**Investigate the physics of materials by learning about density and the Young's modulus.**

Complete further study of DC electrical circuits.

**Investigate the changes of state of matter and what is so special about the motion of particles in a gas.**

Find out more about magnetic fields including how motors and speakers work.

**Apply learning about generators to microphones and transformers.**

Learn all about mains electricity and how to keep safe from it.

**Revisit and develop further all learning from Y8 electricity.**

**Learn all about forces and motion. Motion graph analysis, vectors, scalars, Newton's Laws, Hooke's law, principle of moments and gears.**

Get into further depth on energy resources. Learn how they work and evaluate them all.

**Learn about the factors behind the stopping distance of vehicles.**

Classify waves and measure waves in a ripple tank.

**Learn about nuclear fission and fusion power.**

Make sure you have got your revision guide by now.

**Learn about sound and ultrasound waves including SONAR.**

Find out how lenses work and how they relate to the eye and the camera.

**Discover how levers act as a force multiplier.**

Discover how friction can be useful and how it can be a problem.

**Investigate elastic objects, pressure and hydraulics.**

Learn the basics of electrical circuits.

**Calculate speed and learn how to analyse motion graphs.**

**Learn how to use standard form and what some number prefixes mean.**

Revisit energy types and efficiency. Investigate insulation types.

**Investigate density, pressure and floating and sinking.**

Calculate specific energy types as well as momentum. Discover applications of momentum conservation.

**Investigate reflection types and refraction.**

Learn all about the electromagnetic spectrum, its uses and dangers.

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**Learn the energy types and transfers.**

Learn the light & sound waves basics.

**Learn how light travels through the air, lenses and our eyes.**

Practice drawing graphs in science.

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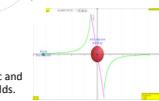
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Discover how friction can be useful and how it can be a problem.



Learn the basics of electrical circuits.



Learn about why we get eclipses and what the Solar System is made from.



Develop a thirst for knowledge about the world and how it all might work.



Decide to read non-fiction books as well as fiction. Books on space, dinosaurs, animals and fireworks.



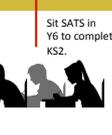
Forge and develop friendships that will last a lifetime.



Sit SATS in Y6 to complete KS2.



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