

PCSA Science – Learning Journey

Careers using Science

- Teacher
- Medicine
- Forensic scientist
- Electrician
- Animal technician
- Paramedic
- SOCO
- Electrician
- Engineer
- Research Scientist
- Physiotherapist
- Personal trainer
- Pathologist
- Veterinary nurse
- Archaeologist
- Radiographer
- Sports scientist
- Pharmacologist
- Psychologist
- ...and many more

Go to university to enhance your studies and get a degree

Start a degree level apprenticeship

what's **YOUR** next move?

Consider your Post-18 options



Complete work experience in a Science based environment



Consider a summer internship and voluntary work to enhance your learning

Complete your Post 16 qualifications to further your GCSE learning



Study a Science course at a College or 6th form



POST 16

Coordination and control
How do we respond to changes in the environment around us?

Rate of Reaction
How can we make a reaction speed up?



Moving objects
What causes an object to accelerate?



Evolution
What is survival of the fittest? Who is Charles Darwin?



Ecology
How are we as humans affecting the environment?



Waves
Which comes first – lightning or thunder? Why?

Using Resources
How can we make water safe to drink?



Space
How do satellites stay in orbit?



YEAR 11

Inheritance
Why do we look like our parents?



Calculating motion



Chemical Analysis
How can we test for different ions?



The Earth's Atmosphere
How has our atmosphere changed? Why?



Magnetism and Electromagnetism
How do motors work?



Nuclear Physics
What causes radiation? How dangerous is radiation?



Particle explanations



Energy in Matter
On the beach why does the sand burn our feet when the water is cool?



Mains Electricity
How do we get electricity to our homes?



Biochemistry
What happens in our bodies when we exercise? How can farmers make more money?



Current Electricity
How do we get electricity to our homes?



Chemical Bonding
Why are diamonds hard? How do pencils work?



Energy in matter
How does energy cause change in matter?



Forces and interactions
What happens when a parachutist jumps from a plane?



Infection and Response
What are pathogens and how do we destroy them?



Cells to Organ Systems
How is our body organised? Why do we need a heart?



Chemical Changes
How do acids and alkalis act? How can we separate compounds with electricity?



Energy
How do hand warmers work?



Cell Biology
How do cells communicate? What are stem cells?



YEAR 10

Quantitative Chemistry
What is a mole? What is concentration?



How we see?
How does light behave? What is white light made of?



Health and Disease
What causes disease? How does our body protect us?



More About Forces
Mass or weight? Why do objects float or sink?



Reproduction
How do plants and animals reproduce?



Tissues to Organ systems
How are multicellular organisms organised?



Periodic Table
Why is it arranged as it is? How does each group behave?



YEAR 9

Biodiversity and Human Impact
How do humans impact the environment?



Motion
How can we measure how fast an object is moving?



Variation and classification
Why are we all different to each other?



Energy in reactions
Why do objects feel hot or cold following chemical reactions?



Understanding Chemical Reactions
What happens to chemicals when they react with one another?



Reproduction
How do plants and animals reproduce?



Tissues to Organ systems
How are multicellular organisms organised?



Interdependence
Why are living things dependent on one another?



Electric Energy
What is resistance? What can affect charge flow in a circuit?



Inheritance
What is a genome? What do we inherit from our parents?



Heating and cooling
What is the difference between temperature and heat?



Electric circuits
What is current? How do circuits work?



Chemical change
What is the difference between chemical and physical changes?



YEAR 8

Energy stores and transfers
How is energy transferred? What is an energy store?



Atoms, Elements & Compounds
Why does table salt dissolve in water but sand doesn't?



Transition Day
How do we carry out a Science experiment?



Sound and Light
Why do we see colored objects? How does sound travel from a drum to your ear?



Transition Day
How do I stay safe in a science laboratory?



YEAR 7

Substances and Mixtures
How can we separate the salt from sandy sea water?



Cells
What are cells? Why are cells different?



Transition Day
How do I stay safe in a science laboratory?



Transition Day
How do I stay safe in a science laboratory?



Primary School

