



WHS Science Curriculum

Cells and Respiration

What are the two main types of cells? What is respiration? What is photosynthesis?

Forces

What are forces? How can we represent them? What is the difference between mass and weight?

Chemical Reactions

How can we represent chemical reactions? What are the key signs of a chemical change?

Specialised Cells and Reproduction

Are all our cells the same? How are they specialised? What are sex cells and why are they so important?

Motion and Mechanics

How can we measure and describe motion? How do forces affect the motion of objects?

KS3

Year 7 and 8

Particles and Physical Changes

What is diffusion? What does it mean to change state? What is the difference between a physical and a chemical change?

Ecology and Evolution

All organisms in an ecosystem are dependent on each other. But how? Why? How have organisms evolved over time?

Energy and Electricity

What are the laws of energy transformations? Which energy resources should we use to generate electricity? Why?

Elements and the Periodic Table

All molecules can be ordered into elements, compounds and mixtures. How do we arrange our elements? What can we tell about an element from its *group* and *period*.

Interdependence and the environment

How do scientists study the environment? Why is it so important? What can we do with our findings? How have humans impacted biodiversity on earth?