Physical Science KS3



Y7 UNIT 3





Forces









Y7 UNIT 1









Y7 UNIT 5





Particles

What is an atom?

How can the particle model show substances in difference



Y7 UNIT 7

Light What is reflection? How does the

human eye work?

Y7 UNIT 6

Elements and compounds

What is the difference between an element and a compound?

How are all known elements displayed?

Y7 UNIT 2 (2)

Energy resources

What are some examples of renewable and non-renewable energy sources?

How does energy transfer?

Chemical reactions

What are chemical reactions? What is combustion and why is it useful?



Space

What objects are in our Solar System?

How does a solar eclipse happen?

Motion

What happens when forces are unbalanced?

How is speed calculated?



Y7 UNIT 8

What is a difference between acids and alkalis?

Acids and alkalis

How can you measure whether a substance is acidic or alkaline?

Y7 UNIT 9

Circuits

What is the main difference between series and parallel circuits?

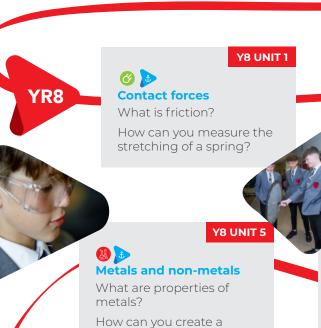
How does static electricity build up?

Earth structure

Y7 UNIT 10

What is the structure of the Earth?

How do sedimentary rocks form?



Separating mixtures

What is a mixture?

How does filtering separate solids from liquids?

Y8 UNIT 4

Y8 UNIT 2

Transferring energy

What is meant by conduction? How can a house be insulated

to prevent energy loss?

Y8 UNIT 3

What gases are in the atmosphere?

How are humans contributing to global warming?

Y8 UNIT 6

reactivity series?

Sound

What are the differences between transverse and longitudinal waves?

How does the human body detect sound?

The Periodic table

What is the periodic table? How does the pattern of reactivity change in group 1?

Resources

Where do we get metal from? What can be recycled and why is it important?



Y8 UNIT 9

Magnetism

Y9 UNIT 1

What are electromagnets?

How can electromagnets be used?



Energy

What are exothermic and endothermic reactions?

How do reaction profiles show energy change in a reaction?

Periodic table development

What is the Dalton model of the atom?

How does the Bohn model of the atom differ from the Dalton one?

Radiation and electromagnetic

Y9 UNIT 3

Y9 UNIT 4

What is radiation?

How are electromagnetic waves used?



Y9 UNIT 6

Changes of state

What is specific heat capacity?

How does an increase in temperature affect pressure of a gas?

Y9 UNIT 5

Y9 UNIT 2

Using the atom

How are particles arranged in an atom?

How are Rf values calculated in chromatography?

Models of the Universe What is the Big Bang theory?

How have we used telescopes to detect planets?



Y9 UNIT 7

YR9

Bonding and structure

How do ionic and covalent bonds form?

How do the structures of ionic lattices and simple molecules differ?



Monitoring motion

What is the difference between speed and velocity?

How can you measure acceleration?

