# Physical Science KS3

Y7 UNIT 1





















**Y7 UNIT 3** 



### **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?



**Elements and** compounds

What is the difference between an element and a compound?

How are all known elements

### **Y7 UNIT 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?



### **Y7 UNIT 6**

displayed?

### **Y7 UNIT 5**

# **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**

**Acids and alkalis** 

What is a difference between 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?

### Y7 UNIT 10

### **Earth structure**

What is the structure of the Earth?

How do sedimentary rocks form?



**Contact forces** 

How can you measure the

# Y8 UNIT 1

**Y8 UNIT 5** 

### What is friction?

**Metals and non-metals** 

What are properties of

How can you create a reactivity series?

stretching of a spring?

# **Y8 UNIT 2**

Separating mixtures What is a mixture?

How does filtering separate solids from liquids?

### **Transferring energy**

What is meant by conduction?

How can a house be insulated to prevent energy loss?

**Y8 UNIT 4** 

### **Climate**

What gases are in the atmosphere?

**Y8 UNIT 3** 

How are humans contributing to global warming?

# Y8 UNIT 6

# 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?

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

is it important?



### **Magnetism**

**Y9 UNIT 1** 

What are electromagnets? How can electromagnets be used?

# **⊘ № № № №**

Working scientifically

What are variables?

How do I plan an investigation? How do I present data?

**Y9 UNIT 5** 

How do I analyse data?

# Using the atom

### How are particles arranged in an atom?

**Y8 UNIT 9** 

How are Rf values calculated in chromatography?



YR9

### **Bonding and structure**

How do ionic and covalent bonds form? How do the structures of ionic lattices



**Y9 UNIT 4** 

and simple molecules differ?

### **Changes of state**

What is specific heat capacity? How does an increase in

temperature affect pressure of a gas?



### **Monitoring motion**

What is the difference between speed and velocity?

How can you measure acceleration?





**Y9 UNIT 3** 

**Y9 UNIT 2**