

Welcome back to Year 6

I hope you have had break!

The year 6 team is Mrs Clark every morning and Wednesday afternoons and Mrs Draper Mon, Tues, Thurs and Fri afternoon) and my team of teaching assistants Mrs Dobson and Mrs Richards. We are very excited about the term ahead.

You can contact us at kclark@shaw.wilts.sch.uk or ndraper@shaw.wilts.sch.uk



Coasts and Lighthouses



SCIENCE

Electricity

- I can associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.
- I can compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.
- I can use recognised symbols when representing a simple circuit in a diagram.

Other Learning this term

PSHE: T5: Relationships

French: Continuation of Niveau Blanc modules

Art and DT: We will be combining our DT skills with our science learning this term to design, make and evaluate a working lighthouse. In art we will be looking at sea scapes, using different artists' impressions for our own starting points.

Music: Music and me

RE: T5 Does belief in Akhirah (life after death) help Muslims lead good lives?

Computing: Coding **Esafety will be taught every lesson**

HOMEWORK

Homework will generally be set on a Friday and returned on a Wednesday. Each week there will be reading, spelling and maths homework. If homework is persistently late or not completed, children may be expected to complete it during a break time. Please email me if you have concerns about your child's homework.

READING

During our reading sessions in school we will continue to develop our VIPERS skills. Children will be given one of these to focus on during reading homework tasks too.

V – identify the meaning of vocabulary

I – pick up on inferences

P – predict what may happen

E – explain what is happening

R – Retrieve information

S – summarise

Also watch this space for an exciting Year 6 Reading challenge coming your way!!

ENGLISH

Writing

T5: Creative writing based on the book *The Promise* by Nicola Davies including story writing setting descriptions, letters, instruction texts, news bulletins and diaries.

Grammar

Use expanded noun phrases to convey complicated information concisely.

Use the perfect form of verbs to mark relationships of time and cause.

Use the passive voice to affect the presentation of information in a sentence.

Use complex sentences and punctuate these with commas.

Link ideas across paragraphs using a wider range

MATHS

T5: Algebra

See Road Map below

T5: Statistics

See Road Map below

We will then spend the rest of the term consolidating the first 1 – 12 Key Performance Indicators which have been identified by the Government as key areas for children to consolidate before moving on to the next year group. I have attached a copy of these below the Road maps and homework will be consolidating these areas too.

PE

PE lessons will be on Tuesday and Thursday afternoon; This term we will be focussing on Rounders and Sports Day preparation. Children should come to school wearing their PE kit on these days. Correct PE kit is as follows: black/dark shorts, joggers or leggings; plain white t-shirt; and trainers. Children should wear Shaw jumpers/cardigans over their kit- they are NOT permitted to wear other hoodies over sweatshirts. Earrings will need to be removed or covered with tape supplied from home.

Children will need a change of shoes.

Knowledge Organiser Year 6
Unit: Electricity

When a light is switched on, you are sending a flow of electrons around the circuit.

Metals such as copper, aluminium, zinc and gold are good conductors of electricity.



Light bulbs turn electricity into light due to resistance.

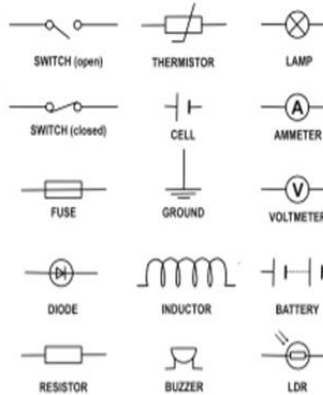


ROCKET WORDS

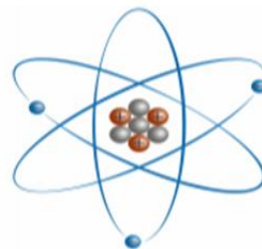
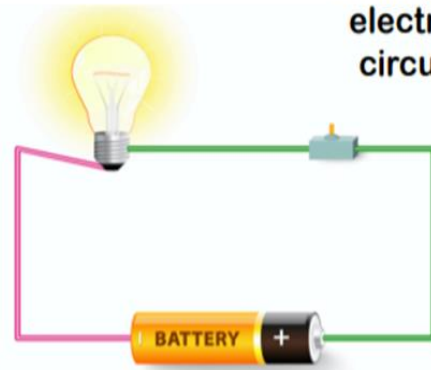
Learn these words and their definitions.

Key Word	Definition
static electricity	Electricity that collects on the surface of an object, which can cause an electric shock.
filament	A thin piece of wire with a high melting point, used in bulbs.
voltage	An electric force which 'pushes' the electric current round the circuit.
insulator	A material which doesn't conduct electricity.
conductor	A material that electricity can flow through easily.
fuse	A safety device on a circuit that can stop current from flowing if it becomes overheated.
component	An individual part in an electronic circuit.
variable resistor	A device which varies the amount of electric current allowed to flow through a circuit.

Electric circuit symbols



A simple electric circuit



Atom structure
● Proton
● Neutron
● Electron

FACTOIDS:

Can you find out more?

Q1. How is static electricity created?

A1. Friction on an object creates an electric charge.

Q2. How does a wind-up torch work?

It works through a dynamo which turns mechanical energy to electrical energy through a simple electromagnet.

Q3. How are insulators helpful?

They prevent electric flow so you don't receive an electric shock!

Lesson Sequence

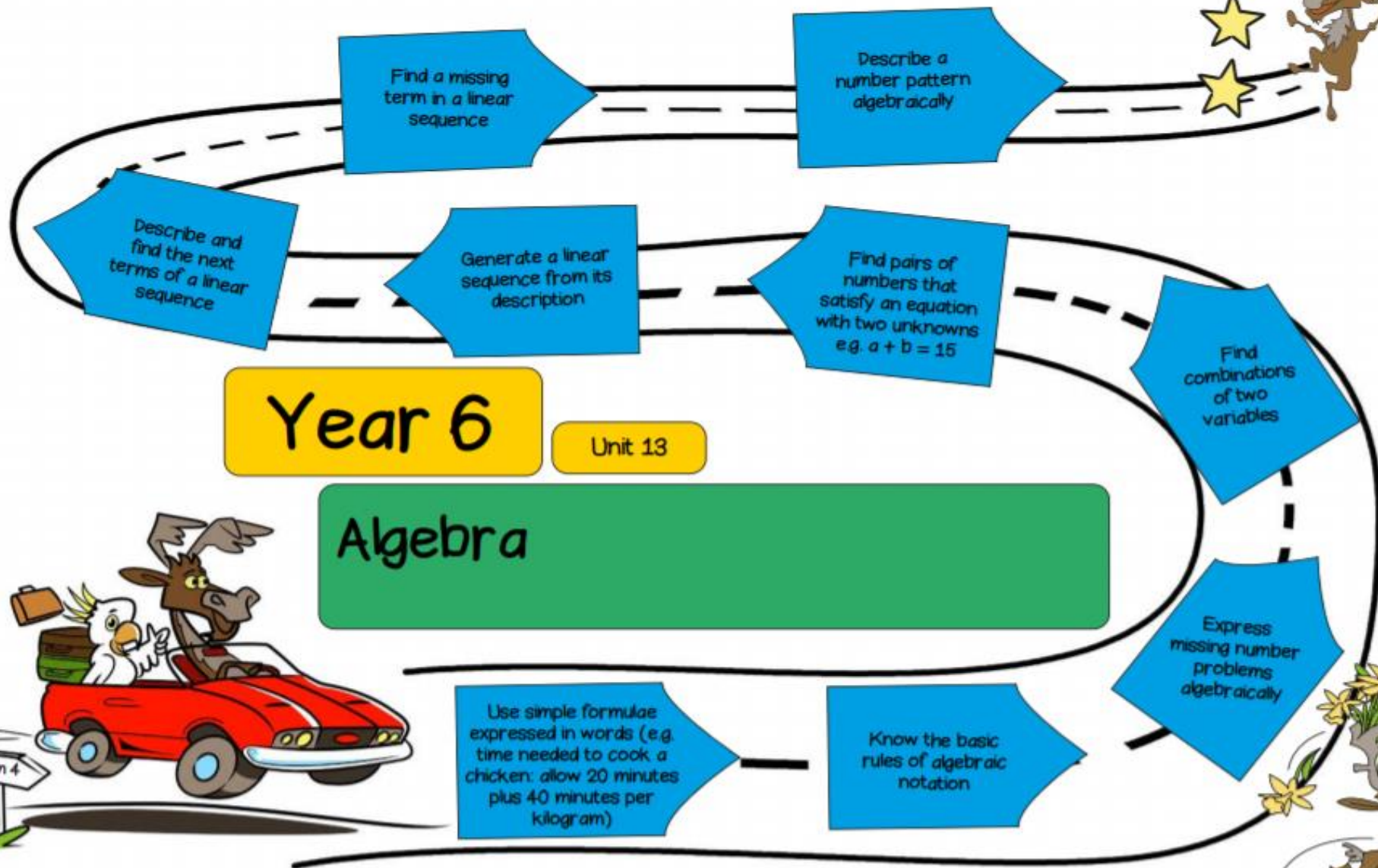
- 1 Explain how objects become charged
- 2 Describe the parts of an electric circuit
- 3 Explain how voltage affects bulb brightness
- 4 Compare electrical conductors and insulators
- 5 Build a set of traffic lights
- 6 Explain how variable resistors can work like a switch

Unit: Electricity

This unit will help you explore different types of electricity as well as understanding what makes up a circuit. You will learn about this by studying circuit diagrams and by building your own circuits. You will also think about what materials conduct and which insulate, so you know about safety with electricity. It will also help you learn about the importance of saving energy.

Understanding electricity is important for many careers which involve circuitry and installation of electrical devices. It is also helpful for being able to do quick jobs safely and with knowledge.







Understand the meaning of 'average' and calculate the mean of a set of discrete data

Interpret the mean of a set of discrete data

Construct a pie chart by measuring angles

Interpret pie charts

Year 6

Unit 14

Statistics

Construct line graphs

Interpret line graphs



Key performance indicators for this term in maths:

Year 6 KPIs	
1	Read, write and order numbers up to 10,000,000
2	Multiply and divide numbers by 10, 100 and 1000
3	Multiply numbers up to 4 digits by a 2-digit number choosing efficient methods
4	Divide numbers up to 4 digits by a two-digit number choosing efficient methods and interpreting the remainders
5	Calculate intervals across zero
6	Describe and plot positions on a 2-D grid as coordinates in the four quadrants
7	Reflect and translate shapes
8	Simplify fractions
9	Compare and order fractions, including fractions > 1
10	Know and use simple fraction, decimal and percentage equivalents
11	Compare and classify 2-D and 3-D shapes
12	Know and use angle properties of straight lines, at a point and shapes