

Class Information Sheet

<p><u>PE</u> 4L- PE is on Wednesday 4S- PE is on Thursday 4M- PE is on Friday</p> <p>Please make sure your child has sensible footwear on this day and any jewellery is removed.</p>	<p><u>Homework</u> The children will have spellings that will be sent out weekly. The spellings follow spelling rules applicable to the Year 3/4 statutory spelling list. Please support your child to learn the spelling rule.</p> <p>Your child will also receive a weekly maths homework. Topic related homework will be given out when necessary.</p> <p>Homework is sent out on a Friday and should be returned by the following Friday.</p>
<p><u>Reading</u> Please read with your child daily and record this information in their reading record. This information will help your child's teacher to monitor their reading.</p> <p>It is the child's responsibility to change their reading book.</p>	<p><u>Water bottles</u> Please provide your child with a water bottle. This is to be taken home daily.</p> 
<p><u>Dates for the diary</u></p> <p>Swimming 23rd March- 4th April. The children will need to bring a towel, swimming clothing, asthma pumps (If required) and a drink with them. Further information regarding this will follow.</p> <p>Year 4 Performances- 19th March.</p> <ul style="list-style-type: none"> • 4S and 4L-AM 	<p>Any other questions please contact the school or your child's class teacher.</p> <p><u>Spring Term Parents Evenings</u></p> <p>Monday 23rd March Thursday 26th March</p>

Class Information Sheet

Year 4

Spring Term



This Term our topic is 'Wacky Robot Races- Who will win the race?'. This is a design and technology based topic. The children will be learning about different robots and will be discovering how electricity is used in their construction. They will design, construct and evaluate a variety of robots themselves.

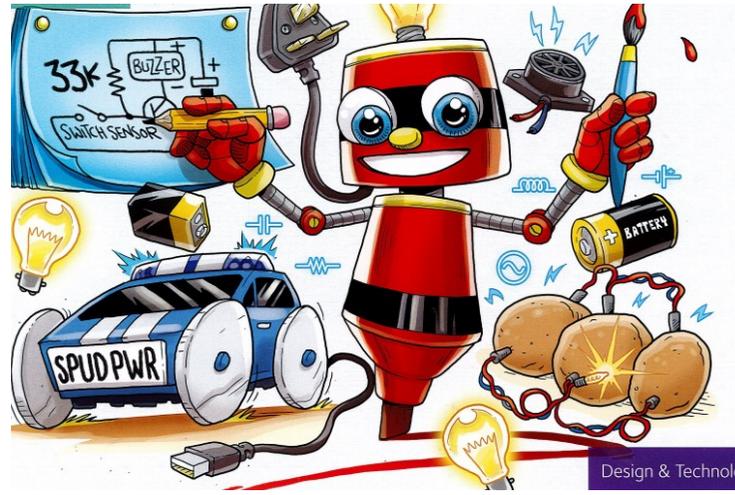
In science this term. the children will explore electricity. They will learn about electrical circuits and the components needed to make them work. They will use this knowledge to design and construct robots.

Also, the children will look at the work of the artist Eric Joyner, who creates art based on robots. They will explore computer science and how this affects the design of robots.

Topic Home Support Sheet– ‘Robot Wacky Races– Who will win the race?’

Key Vocabulary

Algorithm	A series of instructions to typically solve a problem or to perform an action.
Circuit	An electrical circuit is a path or line through which an electrical current flows.
Insulator	An electrical insulator is a material whose internal electric charges do not flow freely; very little electric current will flow through it.
Conductor	A conductor is an object or type of material that allows the flow of charge (electrical current) in one or more directions. Materials made
Friction	Friction is the resistance of motion when one object rubs against another. Anytime two objects rub against each other, they
Purpose	The reason for which something is done or created or for which something exists.
Design	A plan or drawing showing the look and workings of an object before it is made.
Evaluate	To decide on the quality, value or importance of something.
Construct	Build or make something.

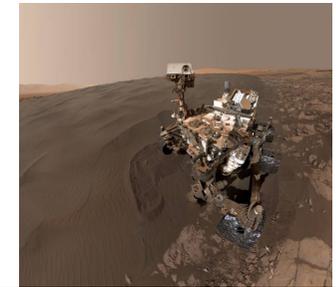


Sticky Knowledge

- ⇒ A robot is a machine that can move around and do different tasks without human help.
- ⇒ In 1954 George Devol invented the first digitally operated and programmable robot called the Ultimate.
- ⇒ Some robots can perform mechanical and repetitive jobs faster, more accurately and more safely than people. Robots can also handle dangerous materials and explore places too dangerous for humans.
- ⇒ Metals are good conductors of electricity. That is why the parts of electrical objects that need to let electricity pass through them are always made of metal.
- ⇒ There are many different parts needed to build a circuit including: cell, battery, bulb, wires, motors and switches.

Robots in space

Mars Rover ‘Curiosity’ is a rover that was sent to Mars to determine if the Red Planet ever had the proper conditions for microbial life to survive.



BRUIE, the Buoyant Rover for Under-Ice Exploration. This robot can float in the water and roll its wheels along the underside of an icy surface, all while taking pictures and collecting data.

