

Year 4 Robotics



Words we will use

robotics, robot, development, technology, artificial intelligence
electricity, circuits, metallic, inventor, switch, current, bulb, wires,
conductor, insulator, chronology, invasion games, defend,
attack, rhythm, timbre, orchestra, machinery, programming,
automatic, investigate, Mars rover, simile, onomatopoeia,
metaphor, personification, phrase, fronted adverbials

As writers we will be learning about and developing our knowledge of fronted adverbials and using commas to show phrases. We will study how newspaper articles are structured before writing our own.

As readers we will read, study and produce writing based on The Iron Man by Ted Hughes.

As mathematicians we will develop our knowledge and understanding of larger whole numbers by exploring place value, rounding numbers, using and applying our knowledge of number in measurement contexts, as well as adding and subtracting 4-digit numbers.

As scientists we will gain our 'junior electrician apprenticeships' by learning about electricity, understanding how it is generated, how it works and we will design, build and test our own circuits.

As designers we will be designing and making a simple alarm system, using a range of switches, in order to warn of the Iron Man approaching. We will also be taking part in a 'Mars Rover' workshop run by engineers from Lancaster University.

As historians we will investigate the development of robots and robotics through time.

As sportspeople we will develop our teamwork skills in team games (focusing on netball) and developing balances in gymnastics.

In RE we will be learning about the symbolism of light in both Christianity and Hinduism.

As computer scientists we will be learning about computer safety and creating an illustrated information guide about staying safe on-line.

As linguists we will be learning about months of the year and events which happen in each month; including birthdays.

Building learning power

We will be helping children to develop their resilience through reviewing and editing work independently and with their peers.

Personal and Social

Throughout the term, we will be developing the children's independence as they begin their Year 4 journey.

Values

We are exploring what 'We allow others to learn' means and how this is applied in our class.

Topic Homework

The children will construct a small model inspired by the Iron Man story by Ted Hughes.