YEAR 9

Energy

- How is art important to science?
- What's inside a cell?
- Can wires be magnets?
- Is electricity safe?
- How do we extract elements more reactive than carbon?
- Which elements are most reactive?
- How do we organise elements?
- What are we made up of?
- Why are group 1 metals so fascinating?
- How do we represent reactions?
- Why are chemical reactions so fascinating?
- How do we know what a virus looks like?
- Why are parallel circuits better for Christmas tree lights?
- How do we represent circuits?
- What is the difference between warm and cold blooded animals?
- How do fish breathe underwater?
- Why is burning so bad?
- Why does your hair stand on end on a trampoline?
- Why do aerosol cans explode in a bonfire?
- Why does the temperature change?
- Which is the best reaction for hand warmers?
- Can anything survive without oxygen?
- How do insects get oxygen if they don't have lungs?
- How do rollercoasters work?
- What is work?
- What does the efficiency mean?
- How do lava lamps work?
- What is temperature?
- How can we reduce energy bills?
- How can we keep things warm?

YEAR 8

How things works

- What is the future of plastics?
- How are compounds different to elements?
- How are fertilisers made?
- How can we use polymers to create a plastics that suits the job?
- Do animals see the same colours as us?
- How does a rainbow form?
- Why does my image appear behind the mirror?
- Why do solar panels not work in moonlight?
- What happens to atoms during reactions?
- How do we hear sounds?
- How do we have a baby?
- Who discovered DNA?
- Are GM crops safe?
- Do plants eat meat?
- How do instruments make music?
- How do we clean something without touching?
- When does life start?
- Could attack of the clones really happen?
- Are there benefits to using fossil fuels?
- What happens to animals and plants that die?
- Why are leaves green?
- What is our world going to look like in 50 years?
- How are living things linked?
- How do plants respond to light?
- What are bacteria?
- What happens when acids and alkalis are mixed?
- Why aren't boats square?
- How does a compass work?
- How can we see inside cells?
- What is inside a cell?

YEAR 7

Our place in the universe

- How do we get clean water?
- Why do tanker ships not sink?
- What colour is black ink?
- Do metals react with water?
- How do objects move?
- How can we get into space?
- Are bones alive?
- How do sharks sense their victims?
- Can rocks be destroyed?
- How do organisms change over time?
- Why is Pluto no longer a planet?
- Are ice and water the same thing?
- How do we know what is under our feet?
- What makes us all different?
- Where did everything come from?