

Science At Perryfields - Year 4

| | Key Vocabulary | BLP Links | Community | Cultural Capital |
|-----------------------------------|---|--|---|--|
| Working Scientifically | Questions, types of enquiry, increase, decrease, appearance, presenting data, conclusions. | Reasoning (observations), questioning (asking about investigations), and capitalising (using resources). | Whole school assembly during British Science Week. | Picture news – where relevant. |
| Electricity | Devices, circuit, diagram, symbols, components, connection, positive/negative, connections, conductor, insulator. | Noticing (patterns), imitation (adopting and adapting methods from examples). | Jenny Watson visit. | Jobs – Electrical technician, Nuclear Engineer. Links with real life – everyday use of electrical items, safety. |
| Animals inc humans | Digestive system, nutrition, types of teeth, oesophagus, stomach, intestines, rectum, anus, prey, carnivore, herbivore, omnivore, producer, consumer, predator. | Distilling (drawing from experiences), | Visits from school nurses/parents with relevant jobs. | Jobs - Nurse, Surgeon, Dentist. Links with real life – health and hygiene. |
| States of Matter | Solid, liquid, gas, oxygen, changing state, heat, cool, water vapour, degrees, temperature, melt, freeze, solidify, melting/boiling point, evaporate, condense, precipitation, transpiration. | Planning and revising (investigations). | High School links – use of facilities. | Jobs – Chemist, Physicist. Links with real life – melting foods, storing food, weather. |
| Sound | Sources, vibrate, pitch, tune, volume, insulation, travel, instruments, muffle. | Questioning (exploring curiosity and testing). | Visit from Mrs Stafford, Rock Steady performances, music lessons. | Jobs – Music Producer, Sound Engineer. Links with real life – music. |
| Living Things and Habitats | Classification keys, environment, types of animals, in/vertebrates, positive and negative human impact. | Reasoning (classifying methodically). | Identifying living things in local environment. | Jobs – Wildlife Biologist, Animal Behaviourist. Links with real life – environmental changes and their effects. |

Vocabulary:

Vocabulary to be displayed on or near science display and referred to regularly. Access to a full list of vocabulary through excel document on staff share including adult use of vocabulary to use with children.

BLP:

Many BLP skills link to learning, such as absorption, managing distractions and perseverance and therefore may appear in most science lessons. Depending on objective, BLP skills will apply and teachers to choose relevant BLP skills and display/discuss for each lesson.

Community:

Links with Jenny Watson, local science teacher, delivering workshops and assemblies to all children in school, once per year. Celebrating British science week, links with High School – UKS2, some class trips involve science link (Think Tank, Transport Museum). Also to involve parents who have science related jobs.

Cultural Capital:

In order to prepare children for future success, we make links with our science topics to real world and real life, picture news (often science related), how science skills and knowledge can be transferrable, introducing jobs related to science <https://nustem.uk/primarycareers/#tab-id-5>.