



Science

At Fawkham CEP School



INTENT:

EYFS – Here at Fawkham children will be provided with many opportunities to explore similarities and differences in relation to places, objects, materials and living things. They will talk about the features of their own immediate environment and how environments might vary from one another. They will be provided with opportunities to make observations of animals and plants and explain why some things occur and changed happen.

KS1/KS2 – Here at Fawkham we deliver high quality science that underpins the foundations for the understanding of the world through biology, chemistry and physics. Investigative science skills are central within every science lesson encouraging the children to have the skills to be successful scientists.

Children here at Fawkham have little exposure to scientists in their everyday lives. Therefore, throughout their science journey, children will learn about the key achievements of scientists throughout history including female scientists and scientists from different cultures. We have chosen to incorporate physics into key stage 1 to ensure a breadth of science coverage from the earliest stages.

Year	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year R (Yr1)	Understanding the World					
	Spiders- making water channels Which materials materials will protect Humpty Dumpty Which animals come out of eggs?	Nocturnal animals- identifying Investigating light and dark Learning about different light source What is in the sky at night?	Labelling body parts Exploring senses How do we keep healthy?- healthy practices including tooth brushing etc	Making potions and observing reactions Unicorn/ rainbow-colour experiments e.g. skittles experiment/ dying carnations	Growing plants- naming parts of a plant/ observing growth and talking about conditions for growth	Floating and sinking Making boats- waterproof/ not waerproof Whale blubber experiment
Year R (Yr2)	Sorting materials- hard/soft Making porridge Where do bears live? Bear hunt- exploring textures	Which animals live in our woodland? Forest school focus- identifying different trees Seasonal changes	Growing Beanstalks- Labelling a plant Discussing conditions for growing What would happen to the Gingerbread man if he swam across the river Building houses for the Three Little Pigs- choosing materials	Comparing different countries (Africa/England) Bread experiment- which condition causes the bread to go mouldy Observing decay on different foods	Identifying different farm animals Matching animals to their home Naming animals and their young Learning about Bees- growing flowers to encourage the bees.	Making flying machines and testing them Building bridges Ramps science experiment Which material makes the best boat?
Year 1	Where I live Light Thomas Young (1773 - 1829)	Once upon a time Everyday materials (physical changes) John Boyd Dunlop (1840 - 1921)	Frozen Kingdom animals including humans (naming animals and body parts) Amy Vedder (1951 -)	Super heroes Forces Christopher Cockerell (1910- 1999)	African Safari Plants (names & structure) Barbara McClintock (1902 - 1992)	Science Week Topic
	Seasonal changes Gabriel Fahrenheit (1686 - 1736)					
Year 2	Space Uses of everyday materials Leo Hendrik Baekeland (1863 -1944)	Space Sound Heinrich Hertz (1857- 94)	Looking after our world Plants (conditions for growing) George Forrest (1873 - 1932)	Looking after our world Animals including humans (health and growth) David Attenboroug h (1926 -)	Big City Living things and their habitats Kate Humble (1968 -	Science Week Topic
	Seasonal changes Inez Fung (1941 -)					



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Year 3	Makes a splash Sound* Robert Boyle (1627- 1691)	Rainforest Plants (growth, function and lifecycle) Barbara McClintock (1902 – 1992)	Pre-historic world Rocks (incl. fossil formation) Inge Lehmann (1888-1993)	Classics Light James Clerk Maxwell (1831- 1879)	Dragons	
					Animals incl humans- skeletons Diane France (1954 -)	Science Week Topic
Year 4	Trash or treasure? Electricity Andre-Marie Ampere (1775- 1836).	Frozen Kingdom Living things and their habitats Carl Linnaeus (1707 – 1778)	Scrumdiddlyum ptious! Animals incl humans- teeth, eating & digestion Charles Elton (1900 – 1991)	Classics Forces and magnets * Hans Christian Oersted (1777 – 1851)	Extreme Earth States of matter Alfred Barnhard Nobel (1833- 1896)	Rotten Romans Science Week Topic
Year 5	Space Earth and space Professor Brian Cox (1968 -) Galileo Galilei (1564 - 1642).	Fawkham Child Properties of materials * Marie Curie (1967-1934)	Raging Rivers Living things and their habitats (lifecycles and habitats) Heather M. Briggs (graduate of University of California)	Classics Animals including humans - changes to old age Professor Robert Winston (1940 -)	Ancient Greece Forces 1 - gravity, friction, air resistance, water resistance Archimedes (c.287 - c.212 BC)	What a performance! Science Week Topic Evolution and inheritance Charles Darwin (1809 - 1882)
Year 6	All about me Electricity Benjamin Franklin (1706-90)	Shakespeare Changes of materials * Dmitri Mendelejev (1834 - 1907)	WWII Light Sir David Brewster (1781 - 1868)	Classics Living things and their habitats (classification incl micro-organisms) Evelyn Cheesman (1881 - 1969)	Egyptians Forces 2 - levers, pulleys and gears, Sir Isaac Newton (1642 - 1727)	What a performance! Science Week Topic Animals including humans - health and circulation William Harvey (1578 - 1657)

KEY

Biology

Chemistry

Physics

Male Female

Multicultural