

SUBJECT CURRICULUM OVERVIEW – Science Biology, Chemistry, Physics

Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Seasonal change Key Scientists John Dalton (1766 – 1844) Famous for the amount of time he kept a weather diary for.	Everyday Materials Key Scientists John Boyd Dunlop (1840 – 1921) - Charles Macintosh (176 – 1843) - John McAdam (1756 – 1836) –	Animals including humans Key Scientists Carl Linnaeus (1707-1778) - The inventor of modern scientific classification. Amy Vedder (1951 -) – Wildlife biologist and conservationist	Seasonal change Key scientists Gabriel Fahrenheit (1686 – 1736) – Inventor of the first modern thermometer.	Plants Key scientists Barbara McClintock (1902 – 1992) Joseph Banks (1743 – 1820) Gregor Mendel (1822 -1884) Carl Linnaeus (1707 – 1778) George Forrest (1873 – 1932)	Seasonal Change Key scientists Inez Fung (1941 -) — Studies climate change
Year 2	Uses of everyday Materials <u>Key Scientists</u> Leo Hendrik Baekeland (1863 - 1944) - Goodyear(1800- 1860) –	Uses of everyday Materials	Plants Key scientists Barbara McClintock (1902 – 1992) Joseph Banks (1743 – 1820) Gregor Mendel (1822 -1884) Carl Linnaeus (1707 – 1778) George Forrest (1873 – 1932)	Living things and their habitats Key scientists Kate Humble (1968 -) — naturalist and presenter on BBC of wildlife programs Steve Backshall (1973 -)— naturalist and presenter on BBC of wildlife programs Chris Packham (1961 -)— naturalist and presenter on BBC of wildlife programs	Living things and their habitats	Animals including humans Key scientists David Attenborough (1926 -) http://www.davidattenborough.co. uk/biography/ Key scientists David Attenborough (1926 -) http://www.davidattenborough.co. uk/biography/



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Year 3	Forces and Magnets Key Scientists William Gilbert (1544 – 1603) - Hans Christian Oersted (1777 – 1851) –	Forces and Magnets	Animals including humans Key scientists Diane France (1954 -) Diane France solves mysteries and crimes by deciphering the stories bones tell her	Rocks Key scientists Professor Ian Stewart (contemporary geologist) Adriana Ocampo (1955 -) Space geologist http://iwaswondering.org/inez homepage.html Friedrich Mohs (1773-1839) Inge Lehmann (1888-1993) Alfred Wegener (1880 – 1930) Tuzo Wilson (1908-1993) Marie Tharp(1920 – 2006) Dorothea Bate (1878 – 1951)	Light Key Scientists James Clerk Maxwell (1831- 1879) - http://www.clerkmaxwellfoundatio n.org/html/who was maxwell .ht ml Thomas Young (1773 – 1829)	Plants Key scientists Barbara McClintock (1902 – 1992) Joseph Banks (1743 – 1820) Gregor Mendel (1822 -1884) Carl Linnaeus (1707 – 1778) George Forrest (1873 – 1932		
Year 4	Electricity Key Scientists Benjamin Franklin (1706- 90). Charles Augustine Coulomb (1736-1806). Alessandro Volta (1745- 1827). Andre-Marie Ampere (1775- 1836).	Sound Key Scientists Robert Boyle (1627- 1691) Ernst Mach (1838-1916). Described how shock waves are formed. Heinrich Hertz (1857-94).	States of matter	States of matter Key Scientists Alfred Barnhard Nobel (1833-1896) - http://www.nobelprize.org/alfred_nobel/ Royal Society of Chemistry	Animals including humans Key scientists Al-Jahiz (9 th Century) – Provided one of the earliest descriptions of food webs. He was working in Baghdad, Iraq, in the early 800s. Charles Elton (1900 – 1991) – Initiated the study of animal ecology	Living things and their habitats Key scientists Carl Linnaeus (1707 – 1778) – Developed a method for classifying all living things on the planet. http://www.nhm.ac.uk/nature-online/science-of-natural-history/biographies/linnaeus/		
Year 5	Animals including humans Key Scientists	Properties and changes of materials Key Scientists	Earth and space Key Scientists Aristarchus (310 – 230 B.C.). He was the first to figure out	Living things and their habitats Key scientists	Forces Key Scientists	Forces		



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TRITIARI SCHOO	Professor Robert Winston	Antoine Lavoisier (1743 -	that the Earth travels around the Sun.	There are plenty of	Sir Isaac Newton (1642 – 1727) –	
	(1940 -) – contemporary scientist	Dmitri Mendeleyev (1834 - 1907) Sir Humphry Davy (1778 - 1829) John Dalton (1766 - 1844) Marie Curie (1967-1934) Royal Society of Chemistry – 'The 175 Faces of Chemistry' provides information on contemporary chemists and chemists of the past - http://www.rsc.org/diversity/175-faces/all-faces	Nicolas Copernicus (1473 – 1543). Had the idea that Earth revolves on its axis and the Earth and other planets orbit around the Sun Galileo Galilei (1564 – 1642 Edwin Hubble (1889-1953). William Huggins. Showed that stars are made up of the same elements that exist on Earth. Cecilia Payne-Gaposchkin (1900-79). Arthur Eddington (1882-1944). He was the first to work out what the inside of a star was like. Professor Brian Cox (1968 -) Contemporary physicist, presents many BBC programmes) Heidi Hammel (1960 -) Astronomer	contemporary scientists working in this field. Look out for current information on science related to reproduction. For example: Kansas State University is currently investigating how to shut down the reproductive ability and desire in pest insects - http://www.sciencedaily.com/r eleases/2013/08/13082618291 7.htm Berry J. Brosi, an assistant professor at Emory University in Atlanta, and Heather M. Briggs, a graduate student at the University of California, Santa Cruz found that a loss of bees affects a plant's ability to reproduce. http://www.nytimes.com/2013 /07/23/science/loss-of-bees- can-affect-plants-ability-to- reproduce-study- finds.html? r=0	Formulated the laws of motion - http://www.bbc.co.uk/history/hist oric figures/newton isaac.shtml Christopher Cockerell (1910- 1999) - Inventor of the hovercraft - http://www.design-technology.info/inventors/page11. htm Archimedes (c.287 - c.212 BC) - Greek inventor - http://www.bbc.co.uk/history/hist oric figures/archimedes.shtml	
Year 6	Living things and their habitats Key scientists Carl Linnaeus (1707-1778) The following video outlines the work of Carl Linnaeus - http://www.nhm.ac.uk/nat ure-online/science-of-natural-history/biographies/linnae us/	Thomas Edison (1847-1931). Inventor of the fuse. Benjamin Franklin (1706- 90). Showed that lightning is caused by electricity. Charles Augustine Coulomb (1736-1806). Alessandro Volta (1745- 1827). Invented the first battery. The volt, the unit of electromotive force, is named after him.	Evolution and inheritance Key Scientists Charles Darwin (1809 – 1882) The following video outlines the work of Charles Darwin - http://www.nhm.ac.uk/nature-online/science-of-natural-history/biographies/charles -darwin/index.html	Animals including humans Key scientists William Harvey (1578 – 1657) Discovered the circulatory system. http://www.bbc.co.uk/history/historic figures/harvey william.shtml	Animals including humans	Light Key Scientists Thomas Young (1773 – 1829) – Wave theory of light. Double-slit experiment. Sir David Brewster (1781 – 1868) - Deduced ``Brewster's law'' giving the angle of incidence that produces reflected light which is completely polarized; invented the kaleidoscope and the stereoscope, and improved the spectroscope



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	Evelyn Cheesman (1881 – 1969) The following video outlines the work of Evelyn Cheesman - http://www.nhm.ac.uk/nat ure-online/science-of-natural-history/biographies/evelyn -cheesman/index.html	Andre-Marie Ampere (1775-1836).	Alfred Russel Wallace (1823 - 1913) The following video outlines the work of Alfred Russel Wallace - http://www.nhm.ac.uk/nat ure-online/science-of- natural- history/biographies/wallac e/index.html			Jean-Bernard-Leon Foucault (1819-1868) — Accurately measured the speed of light
	Sir Hans Sloane (1660 – 1753) The following video outlines the work of Sir Hans Sloane - http://www.nhm.ac.uk/nat ure-online/science-of-natural-history/biographies/hans-sloane/index.html		Richard Owen (1804 – 1882) The following website outlines the work of Richard Owen - http://www.nhm.ac.uk/nature-online/science-of-natural-history/biographies/richard -owen/index.html			
	Gilbert White (1720 – 1793) The following website outlines the work of Gilbert White - http://www.nhm.ac.uk/nat ure-online/science-of-natural-history/biographies/gilbert -white/index.html					



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