## **Science Overview - St Paul's**



	A	Autumn		Spring		Summer			
Working Scientifically skills	Planning  -Ask questions -Use observational skills -Use scientific equipment		Science Week 11-20th March 2022  Data -gathering - presenting -analysing results		Evaluation -answer questions -use results to draw conclusions -primary and secondary sources				
Reception	Potions Ask simple questions		Growing Make observations		Natural world  Identify and classify				
	Seaso	nal Changes EYFS- linked to	months of the year. A wee	ek applied each term to li	nk to Understanding the	World.			
Year 1	*Everyday Materials  STEM https://www.stem.org.uk/rouat  William Addis Toothbrush Inventor. Charles Mackintosh  (Waterproof coat) John MacAdam- roads.		*Animals inc Humans  Chris Packham-Animal Conservationist		*Plants  Beatrix Potter Author & Botanist				
	*Seasonal Changes Year 1 -An ongoing weather diary across all the seasons. Dr Steve Lyons (Extreme Weather) Holly Green (Meteorologist)								
Year 2	*Animals inc Humans Florence Nightingale Pioneer of modern nursing . Elizabeth Garrett Anderson - First British female physician and surgeon. Steve Irwin -Wildlife expert.		*Uses of Everyday Materials    STEMM-https://www.stem.org.uk/rxer7f   Charles Macintosh-Waterproof material   John MacAdam- Tarmac		*Living things and their habitats Rachel Carson- Marine Pollution Liz Bonnin Conservationis				
	*Plants Year 2- Start in the Spring with this as an on-going study, (much like Seasons in year 1 and EYFS). Ca Cook- Botanists. Agnes Arber Botanist Alan Titchmarsh- Botanist & Gardener.								
Year 3	*Animals inc Humans Marie Curie- Radiation. Wilhelm Rontgen - X rays	Rocks (Links to Geography) Mary Anning- Fossil hunter. Dr Anjana Khatwa Geologist Katia Krafft - Volcanologist	*Forces and Magnets Andre Marie Ampere- Electro-magnetism .The Wright Brothers Airplanes. Henry Ford- Cars	<b>Light</b> Justus Von Liebig Mirrors. James Clerk Maxwell (Visible and Invisible Waves of Light)	*Plants Joseph Banks- Botanist Ahmed Mumin Warfa - Botanist	STEM GLOBAL LEARNER https://www.globalstemlearning.org/ https://www.stem.org.uk/rx3uv3  *** Consideration of STEM and Global Learner opportunities.			
Year 4	Living things and their habitats Jacques Cousteau -Marine Biology. Cindy Looy-Environmental Change and Extinction. Joean Beauchamp Procter Zoologist	*Electricity Michael Faraday- Discovered relationship between magnets and electricity Thomas Edison- Lightbulb Joseph Swan- Incandescent Light Bulb	*States of Matter Joseph Priestly - Discovered oxygen Lord Kelvin -Absolute zero (temperature) Anders Celsius -Temperature Scale Daniel FahrenheitTemperature Scale / Invention of the Thermometer. George Washington Carver- chemist		Animals inc Humans Joseph Lister-Antiseptic Ivan Pavlov- Digestive System Mechanisms Washington & Lucius Sheffield- Toothpaste in	*Sound Alexander Graham Bell -Invented the telephone Aristotle - Sound Waves Gailileo Galilei - Frequency and Pitch of Sound Waves			

## **Science Overview - St Paul's**



Year 5	*Forces Isaac Newton- Gravity Albert Einstein- The Theory Of relativity Galileo Galilei - Gravity and Acceleration Archimedes of Syracuse- Levers	Earth and space (Links to Geography) Margaret Hamilton- Computer scientist (Moon Landings). Stephen Hawking- Black Holes. Mae Jemison - Astronaut Claudius Ptolemy and Nicolaus Copernicus - Heliocentric vs Geocentric Universe. Neil Armstrong- First man on the Moon. Helen Sharman- GB astronaut. Caroline Herschel- First to find a comet. V. Tereshkova-Cosmonaut	*Properties and changes of materials  Sir Humphrey Davy- Separating gases Jamie Garcia (BP website)- Invention of a new plastic. Becky Schroeder - fluorescence material. Spencer Silver, Arthur Fry and Alan Amron - Post-It Notes.		*Living things and habitats Jane Goodall- naturalist. Sylvia Earle - Marine biologist. Dr. Paula Kahumbu-wildlife conservationist. Mangala Mani - Antarctic scientist Sir David Attenborough- Animal Behaviourist	Animals inc Humans (Links to RSE) Alexander Fleming- Penicillin. Louis Pasteur- Vaccination Eva Crane -Reproduction in Bees. Virginia Apgar-obstetrical anaesthesiologist
Year 6	*Electricity  Nikola Telsa -AC electric system  Alessandro Volta- Electrical Battery Nicola Tesla- Alternating Currents  Edith Clarke -Electrical engineer		Light Thomas Edison -Invented electric light bulb Patricia Bath (BP website)- saving sight Thomas Young (Wave Theory of Light) Ibn al-Haytham -Light and our Eyes. Percy Shaw - The Cats Eye	*Living things and habitats  Carl Linneus Classification. Libby Hyman Classification Invertebrates	*Evolution and Inheritance Hippocrates -The Father of Medicine Charles Darwin- Evolution Alfred Russell Wallace - naturalist Rosalind Franklin - DNA Nettie Stevens - Geneticist.Professor Alice Roberts - Evolutionary biologist	Animals inc Humans (Links to RSE) Leonardo Da Vinci- anatomy. Santorio Santorio-Anatomist. Dr. Katherine Dibb - Expert in Cardiovascular Sciences. Justus von Liebig- Theories of Nutrition and Metabolism. Sir Richard Doll- Linking Smoking and Health Problems.