



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	<p>Rocks and soils Paleaontologist – Dr Emma Nicholls Identifying and Classifying Rock Grain Crystals Layers Texture Absorbs Marble Chalk Soil Sedimentary Igneous Metamorphic Fossil Minerals</p>	<p>Animals Including Humans Polar Scientist – Prem Singh Gill Research Nutrition Carbohydrates Sugar Protein Vitamins Fibre Fat Skeleton Muscles Joints Protect Support Spine Skull Minerals</p>	<p>Light Microscopist – Professor Robert Pal Comparative Fair Testing Light source Dark Surface Shadow Reflect Mirror Dangerous Light Sun Sunlight</p>	<p>Plants Ecological Entomologist – Ben Woodcock Observation over time Assessment Focus Can children observe closely? Can children identify parts of a flowering plant? Pollination Seed formation Seed dispersal Nutrients Transport Male Female Leaves Petal Stem Pollen Seed Root Producers Reproduction</p>	<p>Forces and Magnets Mechanical Engineer – Rafsan Chowdhury (Science Exhibition children to create a game) Pattern Seeking Does the size and shape of a magnet affect how strong it is? Push Pull Magnetic Strength Attract Repel North pole South pole Material Force</p>	<p>STEM Science Illustrator – Vicky Bowskill Venn diagram Bar chart Fair test Variable Conclusion Thermometer Measure accurate</p>
Year 4	<p>Electricity Battery Researcher – Nicole Melzack Pattern Seeking What happens when you add/remove batteries/lamps as part of an electrical circuit? Electricity Mains Electrical circuit Complete Positive Negative Connect Buzzer Motor Switch Conductor Insulator Bulb Wire Plug Cell Battery</p>	<p>Properties and changing State of materials Innovation Engineer – Erusa Adizie Comparative Fair Testing Solid Liquid Gas Heating Cooling Freeze Melt Boil Condensation Precipitation Temperature Water cycle Changing state Evaporation</p>	<p>Working Scientifically skills Diagram Thermometer Measure Accurate Venn diagram Bar chart Line graph Fair test Dependent variable Independent variable Conclusion</p>	<p>Animals Including Humans Applications Scientist – Dr Yogesh Kumar Observation over time And Comparative Fair testing Stomach Anus Small intestine Large intestine Incisor Canine Molar Premolar Teeth Digest Digestive system Food chain Herbivore Carnivore Omnivore Producer</p>	<p>Living Things and their Habitat Veterinary Surgeon – Danielle Dos Santos Identifying and Classifying Recording accurately Interpreting results Presenting Data Classification Habitat Environment Hibernate Predator Prey Fish Amphibian Reptile Bird Mammal Herbivore Carnivore Omnivore Producer</p>	<p>Sound Designer – Dr Javier Pereda Pattern Seeking Assessment Focus: Can children suggest how to alter the pitch? Can children carry out simple tests of these ideas? Science Exhibition-Instrument Sound Source Vibrate Travel Pitch Volume Insulation</p>

<p>Year 5 Forest School All Year</p>	<p>Living Things and Their Habitats Marine Biologist – Dawood Qureshi Observation Over time Life cycle Fertilises Asexual reproduction Runners Tubers Cuttings Metamorphosis Sexual reproduction Genetically identical Reproduce</p>	<p>Space Astrophysicist – Haley Gomez (Solar Exhibition 11/12/24) Research Moon Spherical Solar system Rotate Orbit Star Mercury Venus Mars Jupiter Saturn Uranus Neptune Earth Sun</p>	<p>Properties and Changes in Materials Water Scientist – Zoe Ayres Comparative Fair Testing Thermal insulator Thermal conductor Mixture Dissolve Solution Soluble Insoluble Filter Reversible Irreversible Rust New material Changing state Evaporate</p>	<p>Forces Civil Engineer – Jyoti Sehdev Pattern Seeking Assessment Focus: Observing and measuring and planning enquires Gravity Air resistance Water resistance Friction Issac Newton Earth Force</p>	<p>Animals including humans Epigenetics Research Assistant – Laura Benson Pattern Seeking Puberty Child Foetus Adolescent Adult Period Reproduce Sexual Fertilisation Cell</p> <p>(Check PSHE/RSE policy)</p>
<p>Year 6</p>	<p>Evolution and Inheritance Evolutionary Biologist – Dr Kelsey Byers Pattern Seeking Is there a pattern between the size and shape of a bird's beak and the food it will eat? Offspring Characteristics Adapted Inherited Species Evolve Evolution Sexual reproduction</p>	<p>Animals including Humans Animal Behavioural Neuroscientist – Dr Jo Montgomery Comparative Fair Testing (Solar Exhibition 4/12/24) Heart Dissection Heart Pulse rate Blood vessels Transported Lungs Oxygen Carbon Dioxide Circulatory system Diet Health</p>	<p>Light Laser Physics – Prof. Colin Webb Research Straight lines Light rays Reflect Light source refract</p>	<p>Electricity Artificial Intelligence Researcher – Krishna Moorogun Comparative Fair Testing Assessment Focus: Plan a scientific enquiry to answer a question, recognising and controlling variables. Series Circuit diagram Circuit symbol Voltage Brightness Components Electricity Mains Electrical circuit Complete Positive Negative Connect Buzzer Motor Switch Conductor Insulator Bulb Wire Plug Cell Battery</p>	<p>Living things and their habitats. Atmospheric Chemist – Rabi Chhantyal-Pun Identifying and Classifying Assessment Micro-organisms Vertebrates Invertebrates Fish Amphibian Reptile Bird Mammal Cold blooded Warm blooded Insects</p> <p>SATS</p>