Year 2/3 Woodpeckers

Science: Topic Study (physics)

How did Neil Armstrong get to the moon and back? S1(B)

What Should I Already Know? Pupils have studied forces in year 2. They have looked at 'pushes and pulls; using magnets and how a shadow can change size. Children have previously studied everyday materials and their uses. National Curriculum: Enquiry Questions: Key Vocabulary: Who was Neil Armtrong and why is he famous? Action: Something that you do. Working scientifically: Astronaut: A person who is trained to travel in a spacecraft. Float: Move or hover slowly and lightly in the air or in water. **KS1**: Can we investigate the uses of materials in a Force: A push or a pull Ask simple questions, and recognise that Friction: The resistance that one surface encounters when it they can be answered in different ways. space suit? moves over another surface. Observe closely, using simple equipment. Glass: A hard brittle and usually transparent substance Perform simple tests commonly formed by melting a mixture of sands and Identify and classify Which materials would insulate an astronaut chemicals and cooling to a hardness Use observations and ideas to suggest effectively? Gravitation: Movement or a answers to questions. tendency to move toward a center of gravity Gather and record data to help answer **Neil Armstrong** Gravitational field: the region of space surrounding a body in questions. which another body experiences a force of gravitational attraction. Lower KS2: Gravitational forces: A forceful attraction towards Ask relevant questions and use different something. types of scientific enquiries to answer them. Hard: solid, firm, and rigid; not easily broken Use straight forward scientific evidence to Insulate: Holds heat in. answer questions or to support them. Malleable: Bendy/ flexible Make systematic and careful observations Materials: Materials are what objects are made from. and where appropriate take accurate Metal: Various substances such as iron, steel, gold or lead measurements using standard units, using a and which have a more or less shiny appearance, are good range of equipment including thermometers conductors of electricity and heat, can be melted and are and data loggers. Identify differences, similarities or changes usually capable of being shaped Motion: Movement related to simple scientific ideas and Non-Reflective:Not capable of reflecting processes light Use results to draw simple conclusions, Not waterproof: Absorbs water. make predictions for new values, suggest Observation: the action or process of observing something or improvements and raise further someone carefully or in order to gain information. questions. **Opaque**: You cannot see through the object. Record findings using simple scientific Orbit: The curved path of a celestial object or spacecraft language, drawings, labeled diagrams, keys, around a star, planet, or moon bar charts and tables. Paper: A thin sheet made usually from rags, wood, straw or Gather, record, classify and present data in a bark and used to write on, to wrap things in or to cover walls. variety of ways to help answer questions. Report on findings from enquiries, including



oral and written explanations, displays or



