

Year 1 – Materials

Working Scientifically	Sticky Knowledge	Linked Texts	Key Scientists
-Recall and use specific scientific vocabulary accurately (year group key vocabulary). - Ask simple questions and recognise answer many differ, use simple secondary sources. - Observe closing, using simple equipment. - Perform simple tests. - Identify and classify. - Use their observations and ideas to suggest answers to questions. - Gather and record data to help in answering questions. - Record and communicate findings using simple scientific vocabulary	There are many different materials that have different describable and measurable properties. Materials that have similar properties are grouped into metals, rocks, fabrics, wood, plastic and ceramics (including glass). The properties of a material determine whether they are suitable for a purpose.	<i>The Great Paper Caper</i> (Oliver Jeffers) <i>Who Sank the Boat</i> (Pamela Allen) <i>The Story of Cinderella</i> (Walt Disney)	Charles Mackintosh (Waterproof coat) Becky Schroeder (Inventor of Glo-sheets)
Key Question(s):	Key Question(s):	WS vocabulary	
Can you describe the properties of metal? Using scientific words, can you describe rock? Can you name a material that is flexible? Why are windowpanes usually made out of glass? What is similar about plastic and metal? What is different about glass and paper?	<u>Buildings</u> - Which rocks are the least crumbly? - Which materials absorb the most water? - Which type of brick would be the easiest to drag to make a pyramid? - Which material would be the strongest to use as a floor tile? <u>Toys & Nice things</u> - Which fabric would make the softest blanket? - The baby has spilt her drink, which material would absorb the drink the best? - We want to make a really slippery slide, which liquid would be best to use? - Which chocolate will melt the fastest on a warm plate (a model of a warm hand) - Which wrapping papers are strong enough to wrap and send a present?	Investigation, enquiry, what to change, what we used, what we did, what we found out, chart, table, group, compare, observe, sort, classify, record, accuracy, test	

Teaching suggestions in Enquiry types

<u>Comparative tests</u>	<u>Identify & Classify</u>	<u>Observation over time</u>	<u>Pattern Seeking</u>	<u>Research</u>	<u>BIG Question – Problem solving</u>
Which materials are the most flexible? Which materials are the most absorbent? 	We need to choose a material to make an umbrella. Which materials are waterproof? 	What happens to materials over time if we bury them in the ground? What happens to shaving foam over time? 	Is there a pattern in the types of materials that are used to make objects in a school? 	How are bricks made? Which materials can be recycled? 	What are the things I use made from? (Also use EXPLORIFY) <u>Assessment Opportunity</u> 