








Leamington Primary Science Knowledge Organiser

Year 2 – Materials

Strand – Chemistry



What I should already know	What I will learn	Important words to help me. (vocabulary)	Ideas for Scientific Enquiry																		
<ul style="list-style-type: none"> - The names of different everyday materials such as wood, plastic and metal. - The purpose of each material and what different materials are used for. - How to group different materials based on their properties. 	<p>Which are the best materials for everyday objects?</p> <ul style="list-style-type: none"> - I will learn how to choose a type of material for a particular job correctly, thinking about the materials properties and uses. - I will be able to explain how objects made from some materials can be changed for different everyday uses. <p>Which is the most waterproof material?</p> <ul style="list-style-type: none"> - I will learn about materials that are waterproof and understand that waterproof materials do not allow water to pass through them. <p>Which material is more transparent?</p> <ul style="list-style-type: none"> - I will learn about materials that are transparent and understand that transparent materials are clear and see-through. 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Waterproof</td> <td style="padding: 5px;">An object that does not allow water to pass through it.</td> </tr> <tr> <td style="padding: 5px;">Transparent</td> <td style="padding: 5px;">Something that is clear and see-through.</td> </tr> <tr> <td style="padding: 5px;">Rubber</td> <td style="padding: 5px;">An object that can bend and is waterproof.</td> </tr> <tr> <td style="padding: 5px;">Hard</td> <td style="padding: 5px;">Something that does not wear easily.</td> </tr> <tr> <td style="padding: 5px;">Soft</td> <td style="padding: 5px;">Something that can be squashed or shaped easily.</td> </tr> <tr> <td style="padding: 5px;">Metal</td> <td style="padding: 5px;">A shiny material that is a good conductor of electricity.</td> </tr> <tr> <td style="padding: 5px;">Wood</td> <td style="padding: 5px;">A material mainly used for furniture.</td> </tr> <tr> <td style="padding: 5px;">Plastic</td> <td style="padding: 5px;">A long-lasting material which is waterproof, strong and lightweight.</td> </tr> <tr> <td style="padding: 5px;">Material</td> <td style="padding: 5px;">The matter from which a thing is or can be made from.</td> </tr> </table>	Waterproof	An object that does not allow water to pass through it.	Transparent	Something that is clear and see-through.	Rubber	An object that can bend and is waterproof.	Hard	Something that does not wear easily.	Soft	Something that can be squashed or shaped easily.	Metal	A shiny material that is a good conductor of electricity.	Wood	A material mainly used for furniture.	Plastic	A long-lasting material which is waterproof, strong and lightweight.	Material	The matter from which a thing is or can be made from.	<p><u>Classifying and Grouping</u></p> <ul style="list-style-type: none"> - Explore the types of materials you can find in the classroom environment. - Sort different types of materials based on how waterproof they are, how transparent they are, how easily they can break, how strong they are and what they look like. <p><u>Fair / Comparative Testing</u></p> <ul style="list-style-type: none"> - Explore and test the different kinds of waterproof and transparent materials, including those you can find in the classroom environment. - Compare different types of materials by saying what is similar and what is different using scientific vocabulary. <p><u>Secondary Sources</u></p> <ul style="list-style-type: none"> - Research and explain why materials are used for different purposes based on properties.
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Interesting Facts	<p>Which objects change when heated or chilled?</p> <ul style="list-style-type: none"> - I will learn about materials that change in different temperatures. <p>Which is the best material to build a house?</p> <ul style="list-style-type: none"> - I will explore different materials and test strength, durability and waterproofness. I will learn that brick is the best material to build a house as it is waterproof, durable and strong. 	    																			
		<p>Plastic Wood Metal Rubber Fabric</p>																			