



LINCOLN ANGLICAN
ACADEMY TRUST
DIOCESE OF LINCOLN



Medium Term Planning Year 1/2 – Materials – Year 1 objectives

Autumn Term 2	N.C. EXPECTATIONS	Learning question	Associated Substantive Knowledge	Disciplinary Knowledge and skills	Key Vocabulary
1	<p>I can identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.</p> <p>I can find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</p>	<p><u>LQ: Which ball is the bounciest?</u></p>	<p>Children will learn that they can explore the properties of a variety of materials, such as texture, flexibility, hardness, and elasticity.</p> <p>Children will learn that they can generate questions and discuss the similarities and differences between different materials based on their properties.</p> <p>Children will learn that some materials have elasticity properties, meaning they can stretch or return to their original shape after being stretched or compressed.</p>	Comparative testing	
				<p>Ask their own simple questions about what they notice and recognise that they can be answered in different ways.</p> <p>Observing closely, using simple equipment.</p> <p>Use their observations and ideas to suggest answers to questions.</p> <p>Gather and record data to help in answering questions.</p>	
2		<p><u>LQ: Which materials are flexible, rigid, stretchy, squashy, elastic, or stiff?</u></p>	<p>Children will learn that flexible materials can bend and stretch to a certain point without breaking.</p> <p>Children will learn that rigid and stiff materials are the opposite of flexible materials, as they do not bend or stretch.</p> <p>Children will learn that stretchy materials act like little springs: when pulled, they stretch out, and</p>	Comparative testing	
				<p>Ask their own simple questions about what they notice and recognise that they can be answered in different ways.</p>	



LINCOLN ANGLICAN
ACADEMY TRUST
DIOCESE OF LINCOLN



Medium Term Planning Year 1/2 – Materials – Year 1 objectives

			<p>when released, they bounce back to their original shape.</p> <p>Children will learn that squashy materials are soft and squish down when pressed, similar to hugging a fluffy pillow.</p> <p>Children will learn that elasticity refers to the ability of a material to return to its original shape and size after being stretched or deformed.</p>	<p>Observing closely, using simple equipment. Use their observations and ideas to suggest answers to questions. Gather and record data to help in answering questions.</p>	
3		<p><u>LQ: Can I make links between materials and how they are used?</u></p>	<p>Children learn that materials are flexible, rigid, stretchy, squashy, elastic, or stiff.</p> <p>Children will learn that they can choose materials based on the properties needed for making particular things.</p> <p>Children will learn that they can explain which material is the most suitable for a specific purpose and suggest reasons why it is the best choice.</p>	<p>Identifying, grouping and classifying.</p> <p>Ask their own simple questions about what they notice and recognise that they can be answered in different ways. Observing closely, using simple equipment. Use their observations and ideas to suggest answers to questions.</p>	



LINCOLN ANGLICAN
ACADEMY TRUST
DIOCESE OF LINCOLN



Medium Term Planning Year 1/2 – Materials – Year 1 objectives

				Gather and record data to help in answering questions	
4		<u>LQ: Which material is most suitable for a child's dungarees.</u>	<p>Children will learn that they can use the same method to test different materials.</p> <p>Children will learn that they can record their results using a table to organize and compare data and use their results to help choose the best material for making dungarees.</p>	<p>Comparative testing</p> <p>Ask their own simple questions about what they notice and recognising that they can be answered in different ways.</p> <p>Observing closely, using simple equipment.</p> <p>Performing simple tests.</p> <p>Using their observations and ideas to suggest answers to questions.</p> <p>Gathering and recording data to help in answering questions.</p>	
5		<u>LQ: Which is the best material to make a catapult?</u>	<p>Children will learn that they can choose appropriate materials for a catapult frame based on their properties.</p> <p>Children will learn that they can suggest reasons why some materials are better than others for use</p>	<p>Comparative testing</p> <p>Ask their own simple questions about what they notice and recognising that they can</p>	



LINCOLN ANGLICAN
ACADEMY TRUST
DIOCESE OF LINCOLN



Medium Term Planning Year 1/2 – Materials – Year 1 objectives

			<p>as catapult elastic, based on their elasticity and strength.</p>	<p>be answered in different ways. Observing closely, using simple equipment. Performing simple tests. Using their observations and ideas to suggest answers to questions. Gathering and recording data to help in answering questions.</p>	
6		<p><u>LQ: What season is it?</u></p> <p>NC - I can observe changes across the four seasons. I can observe and describe weather associated with the seasons and how day length varies.</p>	<p>To know there are 4 seasons, winter, summer, spring and autumn.</p> <p>Know what trees and plants look like in each season (e.g., flowers in spring, bare branches in winter).</p> <p>Learn what animals do in each season (e.g., some animals sleep in winter, baby animals are born in spring).</p> <p>Talk about what the weather is like in different seasons (e.g., sunny and warm in summer, cold and frosty in winter).</p>	<p>Observing changes over time.</p> <p>Ask their own simple questions about what they notice and recognising that they can be answered in different ways. Observing closely, using simple equipment. Performing simple tests. Using their observations and ideas to suggest answers to questions.</p>	



LINCOLN ANGLICAN
ACADEMY TRUST
DIOCESE OF LINCOLN



Medium Term Planning Year 1/2 – Materials – Year 1 objectives

				Gathering and recording data to help in answering questions.	
--	--	--	--	--	--