

## The ASPIRE Curriculum-Key Learning



## *Title:* Properties and Changes of Materials *Year: 5* Subject: *Science*

Key Knowledge	Key Skills	Key Vocabulary
<ul> <li>Any substance that is used to make something is a material.</li> <li>Natural materials such as stone, wood and cotton are used or worked with in the way they are found in nature.</li> <li>Synthetic or human-made materials are made from natural materials, but are altered with the help of heat or chemicals such as plastics and polyester.</li> <li>Each material has its own set of properties. These properties make different materials useful for different purposes.</li> <li>Melting, freezing, evaporating, condensing and dissolving are examples of reversible physical changes. These are physical changes because no new materials are created. They are reversible changes because they can be changed back or reversed.</li> </ul>	<ul> <li>To compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.</li> <li>To give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.</li> <li>To explain that some changes result in the formation of new materials, and that this kind of change is not sundly reversible.</li> <li>Persite changes, such as main and disadving solids and liquids together.</li> <li>To explain that some changes result in the formation of new materials, and that this kind of change is not sundly reversible.</li> <li>Persite changes, such as main and disadving solids and liquids together.</li> <li>The reversitive.</li> <li>The solid particle with the test of the reversitive for the reversitive.</li> <li>The solid particle with the test of the reversitive for the reversitive.</li> <li>The solid particle with the test of the reversitive for the reversitive.</li> <li>The solid particle with the relative of the reversitive.</li> <li>The solid particles are mixed with disadvine and the solid particle backing.</li> <li>The reversitive.</li> </ul>	<ul> <li>Materials: The substance that something is made from, e.g. wood, plastic, metal.</li> <li>Solids: One of the three states of matter. Solid particles are very close together, meaning solids, such as wood and glass, hold their shape.</li> <li>Liquids: This state of matter can flow and take the shape of the container because the particles are more loosely packed than solids and can move around each other. Examples of liquids include water and milk.</li> <li>Gases: One of the three states of matter. Gas particles are further apart than solid or liquid particles and they are free to move around. A gas fills its container, taking both the shape and the volume of the container. Examples of gases are oxygen and helium.</li> <li>Absorbent: Able to soak up liquid quickly.</li> <li>Condensing: to change from a gas or vapour to a liquid.</li> <li>Dissolving: To pass into a solution (to become fluid)</li> <li>Evaporating: The process of turning from a liquid to a vapour.</li> <li>Residue: A small amount of something that remains after the main part has gone, been taken or used.</li> <li>Reversible: Able to be turned the other way round.</li> </ul>
Luke 1:37 "For with GOD nothing shall be impossible" #ASPIRE		