

Learning Objectives	Teaching Activities	Learning Outcomes	National Curriculum POS
<ul style="list-style-type: none"> • To know what air is and what its characteristics are. • To know that wind is moving air and that it can have an effect on things in our environment. (2 Lessons) • To know what air resistance is and where it can be found. • To know the different forms of water and its uses. • To know what is meant by dissolving and what types of materials do and do not dissolve. To know what a saturated solution is. 	<p>Discussion of where air is found and what it is comprised of. Demonstration of various apparatus where air is involved, E.g. Candle burning, tambourines shaking, balloon getting blown up, etc.</p> <p>Discussion about different strengths of wind what effect it has on trees, buildings, smoke, etc. Completion of Beaufort scale w/s Make own kite and measure wind strength in different parts of the school.</p> <p>Make parachutes Draw sequences of how a parachute works.</p> <p>Poster Demo of steam from kettle and ice from freezer. Use of thermometer to prove boiling and freezing point of water is 100°C and 0°C respectively.</p> <p>Demonstration of attempting to dissolve sugar, salt and oil. Prediction and testing of a variety of materials, such as chalk, washing powder, coffee, rice, salt, etc. Write up of expt.</p>	<p>Able to list the different ingredients of air. Able to describe what effect/influence air has on various drawings from w/s</p> <p>Able to explain and draw some of the effects of wind using the Beaufort scale.</p> <p>Know that wind can be more/less strong in some places than others.</p> <p>Able to explain how a parachute works in relation to air resistance.</p> <p>Able to list and where the different forms of water are found throughout the earth, and what they are used for.</p> <p>Able to explain that dissolving is where particles can't be seen anymore. Able to list which materials do and do not dissolve.</p>	<p>Sc 3 - 1 e</p> <p>Sc 1 2 e, g, h Sc 3 - 1 e</p> <p>Sc 3 1 e</p> <p>Sc 3 1 e</p> <p>Sc 1 2 e, j, k Sc 3 2 d, 3 b</p>

<ul style="list-style-type: none"> • To know what evaporation is, and to know what effects the rate of evaporation • To know what condensation is and to know where condensation can be found. • To know what the water cycle is. • To know how water can be purified and why this is important. 	<p>Aftershave evaporation demo. Washing line expt.</p> <p>Breathing onto mirrors Boiling kettle Demo of ice and cup.</p> <p>OHP of water cycle Relate back to previous lessons on condensation and evaporation.</p> <p>OHP of people drinking dirty water Demo of filtering dirty water using filter paper and funnel.</p>	<p>Able to explain that evaporation is liquid turning into a gas. Able to explain that evaporation happens faster when it is hot/windy rather than cold or still.</p> <p>Able to explain what condensation is. Able to give examples of where condensation is found and why it occurs in these conditions.</p> <p>Able to correctly label a picture of the water cycle. Able to correctly explain what the water cycle is.</p> <p>Able to explain what sorts of diseases can be caught from drinking dirty water. Able to show in diagram form how water can be filtered using physical and chemical means.</p>	<p>Sc 3 2 d, e</p> <p>Sc 3 2 d, e</p> <p>Sc 3 2 e</p> <p>Sc 3 3 a, c</p>
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