

Classroom Workshop: Water

Primary school 5th and 6th class curriculum references:

1. Science

Curriculum	Science
Level	5 th & 6 th classes
Strand	Living things
Strand Unit	Plant and animal life
Objective	Investigate the factors that affect plant growth <i>water, light, soil, temperature</i> Observe, identify and examine the animals and plants that live in local habitats and environments <i>local stream, river or pond, rock pool, seashore</i>

Curriculum	Science
Level	5 th & 6 th classes
Strand	Energy and forces
Strand Unit	Sound
Objective	Explore how sound travels through materials <i>air, water and solids</i>

Curriculum	Science
Level	5 th & 6 th classes
Strand	Energy and forces
Strand Unit	Heat
Objective	Experiment with a range of materials to establish that heat may be transferred in different ways <i>through water, metals or air</i> Know that heat energy can be transferred <i>in solids (conduction), in water and air (convection), from the sun (radiation)</i>

Curriculum	Science
Level	5 th & 6 th classes
Strand	Energy and forces
Strand Unit	Forces
Objective	Identify and explore how objects and materials may be moved <i>by pouring and pumping</i> <i>using trapped liquid under pressure (hydraulics)</i> <i>harnessing energy of moving water</i>

Curriculum	Science
Level	5 th & 6 th classes
Strand	Materials
Strand Unit	Properties and characteristics of materials
Objective	Recognise that materials can be in solid, liquid or gas form

Curriculum	Science
Level	5 th & 6 th classes
Strand	Materials
Strand Unit	Materials and change
Objective	Explore the effects of heating and cooling on a range of solids, liquids and gases <i>temporary changes (e.g. from solid to liquid to gas)</i> <i>expansion of water on freezing</i> <i>evaporation of water on heating</i> Investigate how a wide range of materials may be changed by mixing <i>mixing and dissolving materials in water solutions</i> <i>exploring liquids that will not mix</i> Investigate the effects of light, air and water on materials <i>discolouration and fading</i> <i>rusting of iron and steel</i> <i>investigate how rusting can be controlled</i> <i>characteristics of materials when wet and dry</i> Explore some simple ways in which materials may be separated <i>allowing sediment to settle in a jar of liquid</i> <i>separation of salt and water by evaporation</i> <i>separation of water and soil using simple sieves (filtration)</i>

Curriculum	Science
Level	5 th & 6 th classes
Strand	Environmental awareness and care
Strand Unit	Environmental awareness
Objective	<p>Explore some examples of the interrelationships of living and non-living aspects of the local and other environments <i>ecosystem of stream, boglands, river...</i></p> <p>Become aware of the importance of the Earth's renewable and non-renewable resources</p> <p>Foster an appreciation of the ways in which people use the Earth's resources <i>fishing</i> <i>using water to generate power</i> <i>processing raw materials for manufacturing</i> <i>using the environment for leisure activities</i></p> <p>Come to appreciate the need to conserve resources <i>reducing the amounts of water used</i></p>

Curriculum	Science
Level	5 th & 6 th classes
Strand	Environmental awareness and care
Strand Unit	Science and the environment
Objective	<p>Examine some ways that science and technology have contributed positively to the use of the Earth's resources <i>purifying water, mixing materials to produce new materials, generating electricity</i></p> <p>Recognise and investigate aspects of human activities that may have positive or adverse effects on the environment <i>activities that affect the quality of air, soil, water and the built environment</i></p>

Curriculum	Science
Level	5 th & 6 th classes
Strand	Environmental awareness and care
Strand Unit	Caring for the environment
Objective	<p>Participate in activities that contribute to the enhancement of the environment</p> <p>Identify and discuss a local, national or global environmental issue</p> <p>Come to appreciate individual, community and national responsibility for environmental care</p>

2. Geography

Curriculum	Geography
Level	5 th & 6 th classes
Strand	Natural environments
Strand Unit	The local natural environment
Objective	<p>Investigate and learn about the main natural features in the locality and county</p> <p><i>location relative to other features</i></p> <p><i>physical processes which have shaped or altered the feature (e.g. erosion by water or ice)</i></p> <p>Observe and develop simple understanding of the links between these features</p> <p><i>run-off and drainage patterns in the locality</i></p> <p>Investigate the influence of these features on plants and on the lives of animals and people</p> <p><i>range of flora and fauna</i></p> <p><i>homes, economic activities, transport, communications</i></p> <p>Become aware of the ways in which people, animals and plants have exploited and/or altered these features</p> <p><i>water collection and supply, power generation, tourism, farming</i></p>

Curriculum	Geography
Level	5 th & 6 th classes
Strand	Natural environments
Strand Unit	Lands, rivers and seas of my county
Objective	<p>Become familiar with the names and locations of some major natural features in Ireland</p> <p>Become familiar with the relationship of these features with each other, with elements of the built environment and with significant natural features of Ireland</p> <p><i>towns built near rivers, harbours in bays, links between local stream and major river</i></p>

Curriculum	Geography
Level	5 th & 6 th classes
Strand	Natural environments
Strand Unit	Physical features of Europe and the world
Objective	Learn about a <i>small</i> number of the major natural features of Europe Become familiar with the names and approximate location of a <i>small</i> number of major world physical features

Curriculum	Geography
Level	5 th & 6 th classes
Strand	Natural environments
Strand Unit	Rocks and soil
Objective	Compare soil sample from different parts of the locality <i>compare constituent parts, colour, water retention</i>

Curriculum	Geography
Level	5 th & 6 th classes
Strand	Natural environments
Strand Unit	Weather, climate and atmosphere
Objective	Develop simple understanding of some atmospheric features <i>the water cycle</i>