## 2019 London-Middlesex Children's Water Festival **Activity Station Descriptions**

| ACTIVITY                           | SUMMARY  | CURRICULUM LINKS  |
|------------------------------------|--|---|
| Alien Invasion<br>(WP)             | Sound the alarm!! There are aliens among us, but not the type in science fiction movies. These aliens are organisms from around Canada and the world and they're invading our water.   | - Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment) - Understanding Life Systems, Grade 2 (Growth and Changes in Animals) - Understanding Life Systems, Grade 4 (Habitats and Communities)  |
| A-maze-ing Water<br>Treatment (WT) | You are a dirty drop of water trying to get clean!<br>Race through a purification system obstacle<br>course to understand the process of how water is<br>cleaned.  | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Life Systems, Grade 4 (Habitats and Communities)</li> <li>- Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)</li> </ul>  |
| Back to the River (WA)             | Spending time in nature can benefit our mental and physical health. Join us as we reconnect Back to the River and focus on mindfulness.  | - Active Living (Active Participation, Physical Fitness), Growth and Development, Grade 2 - Active Living (Active Participation, Physical Fitness), Growth and Development, Grade 3 - Active Living (Active Participation, Physical Fitness), Grade 4 - Active Living (Active Participation, Physical Fitness), Making Healthy Choices (Personal Safety and Injury Prevention), Grade 5 |
| Be Water Smart<br>(WA)             | Climb aboard the Lifesaving boat and let's learn about boating safety! We are going on a boating trip but we need your help to sort through our mess and identify what are the essential items to bring on board to prepare for a safe boating trip. | - Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment ) -Healthy Living Grade 4 -Water and Ice Safety (Risk Watch) Grade 3/4   |
| Beach Postings<br>(WP)             | Beaches are a great place to cool off in the hot summer months. Find out what is impacting all of the beach closures we're hearing more and more about.  | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Earth and Space Systems, Grade 3 (Soils in the Environment)</li> <li>- Understanding Earth and Space Systems, Grade 4 (Rocks and Minerals)</li> </ul>   |
| Benthic Watch<br>(WS)              | Did you know you can tell if a stream is healthy or<br>not based on the bugs you find in it? Check out<br>these benthic invertebrates and learn more.  | - Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment) - Understanding Life Systems, Grade 2 (Growth and Changes in Animals) - Understanding Life Systems, Grade 4 (Habitats and Communities)  |

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| BioBlitz (WS)                  | Learn how to become a citizen scientist, and have fun using field equipment to help identify and photograph a variety of species.  | <ul> <li>Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>Understanding Life Systems, Grade 2 (Growth and Changes in Animals)</li> <li>Understanding Life Systems, Grade 4 (Habitats and Communities)</li> </ul>   |
| DO The Limbo<br>(WS)           | Students will have to be very flexible in order to survive a watery world with less oxygen.  | -Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment) -Understanding Life Systems, Grade 3 (Growth and Changes in Plants) -Understanding Life Systems, Grade 4 (Habitats and Communities)   |
| Down the Drain or<br>Not? (WT) | Water that goes into street drains and sink drains go to different places. Learn how the decisions you make in your house and yard can help protect our creeks and rivers.                                     | -Understanding Earth and Space Systems, Grade 4 (Rocks, Minerals and Erosion) -Understanding Life Systems, Grade 4 (Habitats and Communities)  |
| Drop in the<br>Bucket (WC)     | We have HOW much?! Learn about all the water in the world and how much is available for human consumption. Make a bracelet to remind yourself and teach your friends just how limited this resource really is. | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>- Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)</li> <li>- Grade 3, 4, 5 Mathematics Numeration &amp; Measurement</li> </ul>                          |
| Eagle Survivor<br>(WP)         | Feeding your eaglets can be a tough job. Fly to the pond to get some food but don't bring back any contaminated fish.  | <ul> <li>Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>Understanding Life Systems, Grade 2 (Growth and Changes in Animals)</li> <li>Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>Understanding Life Systems, Grade 4 (Habitats and Communities)</li> </ul>  |
| EcoFootprint<br>(WA)           | In a life sized game of snakes and ladders students discover which actions are good and what are harmful to the environment.   | <ul> <li>Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>Understanding Earth and Space Systems, Grade 3 (Soils and the Environment)</li> <li>Understanding Life Systems, Grade 5 (Human Organ Systems)</li> <li>Understanding Matter and Energy</li> </ul> |

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| Farm Grow Bingo<br>(WP)       | Become a modern farmer and a good steward of the land, as you protect waterways, air quality, raise animals and produce crops for humans and animals. But beware: you may have several challenges to overcome! | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Life Systems, Grade 2 (Growth and Changes in Animals)</li> <li>- Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> <li>- Understanding Earth and Space Systems, Grade 3 (Soils in the Environment)</li> <li>- Understanding Earth and Space Systems, Grade 4 (Rocks and Minerals)</li> <li>- Understanding Life Systems, Grade 4 (Habitats and Communities)</li> </ul> |
| Farmer and the<br>Fish (WP)   | Follow the journey of a fish from the city to the lake and learn what farmers do to protect the watershed and keep the waterways clean.  | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Life Systems, Grade 2 (Growth and Changes in Animals)</li> <li>- Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> <li>- Earth and Space Understanding Systems, Grade 3 (Soils in the Environment)</li> <li>- Understanding Earth and Space Systems, Grade 4 (Rocks and Minerals)</li> <li>- Understanding Life Systems, Grade 4 (Habitats and Communities)</li> </ul> |
| Floody Waters<br>(WS)         | Don't get swept away in the flood! Follow the path of stormwater as it makes its way through urban environments, and find out about structures that can help slow the flow.                                    | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Structures and Mechanisms, Grade 3 (Strong and Stable Structures)</li> <li>- Understanding Matter and Energy, Grade 3 (Forces Causing Movement)</li> <li>- Understanding Structures and Mechanisms, Grade 5 (Forces Acting on Structures and Mechanisms)</li> </ul>   |
| From Machine to<br>Clean (WT) | Watch water purify before your eyes! Find out how industrial plants treat their wastewater.  | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>- Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> <li>- Understanding Matter and Energy, Grade 5 (Properties of and Changes in Matter)</li> </ul>   |

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| Go Fish! (WS)                             | Fond of fish? Participate in this magnetic fishing game and test your knowledge about local fish, their habitats and discover how everyone's actions impact water quality and fish habitat.                                 | - Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment) - Understanding Life Systems, Grade 4 (Habitats and Communities) - Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)   |
| Good, Better,<br>Great Lakes (WS)         | Discover the largest fresh water system on earth! Teams work together to identify which Great Lake they are by identifying their depth, elevation and flow.   | -Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment) -People and Environments, Grade 2 (Physical Features and Communities) - Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)   |
| Lather Up (WC)                            | Everyone needs to shower now and then. How much water can we save by using a low flow shower head? Warning - you may get wet at this station.   | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 3 (Forces Causing Movement)</li> <li>- Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)</li> </ul>   |
| Life in a Watery<br>World (WS)            | Investigate plants and animals found in a variety of wetland habitats, and find answers to our "Watery World Scavenger Hunt". Includes materials such as bones, furs, and an assortment of preserved and mounted specimens. | - Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment) - Understanding Life Systems, Grade 2 (Growth and Changes in Animals) - Understanding Life Systems, Grade 4 (Habitats and Communities)   |
| Microplastics : A<br>Mega Problem<br>(WP) | Microplastics are all around us. Find out what they look like, how they enter the environment, how you can find them, and what you can do to reduce your plastic footprint!   | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- People and Environments, Grade 2 (Global Communities)</li> <li>- Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> <li>- Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>- Understanding Life Systems, Grade 4 (Habitats and Communities)</li> <li>- Understanding Earth and Space Systems, Grade 3 (Soils in the Environment)</li> <li>- Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)</li> </ul> |

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| Moo's Thirsty<br>(WA)                 | Our farm animals need water too! Students will experience watering farm animals with present day methods and the importance of fresh clean water.   | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Life Systems, Grade 2 (Growth and Changes in Animals)</li> <li>- Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> <li>- Understanding Life Systems, Grade 4 (Habitats and Communities)</li> </ul>                             |
| Mother Earth<br>Water Walkers<br>(WP) | Students learn about the importance of water to First Nations peoples and about the Water Walkers who have walked around each of the Great Lakes. Students will calculate their own travel around one of the Great Lakes. | - Understanding Life Systems, Grade 4 (Habitats and Communities)- Heritage and Citizenship, Grade 2 (Traditions and Celebrations) -Heritage and Citizenship, Grade 5 (Early Civilizations) -People and Environments, Grade 5 (Role of Gov't and Responsible Citizenship)  |
| Off I Go (WA)                         | Put yourself in somebody else's shoes for a race! As a citizen of a developed or developing country, students race through the obstacle course to fetch water for their community.  | <ul> <li>Canada and World Connections, Grade 2 (Features of Communities Around the World)</li> <li>Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> <li>Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)</li> </ul> |
| Perfect Pipelines<br>(WT)             | Water – we rely on it for almost everything we do, but where does it come from? Race your classmates to find out where our water comes from by discovering how water moves through the "water use cycle".                 | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)</li> <li>- People and Environment, Grade 2 (Global Communities)</li> </ul>  |
| Power to the<br>People (WT)           | Find out how the force of water can provide energy. Discover the evolution of the water mill and how the production and nature of power has changed overtime.   | <ul> <li>- Understanding Structures and Mechanisms, Grade 2 (Movement)</li> <li>- Understanding Structures and Mechanisms, Grade 3 (Strong and Stable Structures)</li> <li>- Energy and Control, Grade 5 (Conservation of Energy)</li> <li>- Understanding Structures and Mechanisms, Grade 5 (Forces Acting on Structures and Mechanisms)</li> </ul>                       |
| Rollin' Through the Shed (WP)         | As a drop of water, students roll through the 'watershed' and become contaminated.  | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>- Understanding Life Systems, Grade 4 (Habitats and Communities)</li> </ul>  |

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| Royal Flush (WC)          | Join us on the throne to find out how much water can be saved with a water-saving toilet.   | - Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment) - Understanding Matter and Energy, Grade 3 (Forces Causing Movement) - Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)   |
| Shapin' The Shed<br>(WS)  | Watershed health is everyone's business! Using an augmented reality sandbox, students will discover how everyone in a watershed is connected by both land and water.  | <ul> <li>- Understanding Structures and Mechanisms, Grade 1 (Materials, Objects and Everyday Structures)</li> <li>- Understanding Earth and Space Systems, Grade 1 (Daily and Seasonal Changes)</li> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- People and Environments, Grade 2 (Global Communities)</li> <li>- Understanding Matter and Energy, Grade 3 (Forces Causing Movement)</li> </ul> |
| Simply Divine<br>(WT)     | Searching for a source of water underground can be difficult – find out if you have the divine gift to be a 'dowser' or "Water Witch'?  | <ul> <li>- Understanding Earth and Space Systems, Grade 3 (Soils in the Environment)</li> <li>- Heritage and Citizenship, Grade 3 (Pioneer Life)</li> <li>- Understanding Earth and Space Systems, Grade 4 (Rocks and Minerals)</li> </ul>   |
| Soak it Up (WT)           | How do plants control, protect and clean our water? Discover how scientists, developers and city planners are using the power of plants to clean and slow our stormwater runoff!                                      | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>- Understanding Life Systems, Grade 3 (Growth and Change in Plants)</li> </ul>  |
| Soil Defenders<br>(WS)    | What's the dirt on soil? Learn how rain is not always a good thing – it can impact our soil and farmlands. Find out what you can do to help protect soil!   | -Understanding Earth and Space Systems, Grade 3 (Soils in the Environment) -Understanding Life Systems, Grade 3 (Growth and Change in Plants) -Understanding Matter and Energy, Grade 3 (Forces Causing Movement)  |
| Stop the Fatbergs<br>(WT) | Fats, (tree) Roots, Oils and Greases Fatbergs plug drains and create blockages that can flood basements, cause pipe bursts and pollute waterways. Learn how to prevent these nasty Fatbergs from blocking your drain! | -Understanding Earth and Space Systems, Grade 4 (Rocks, Minerals and Erosion) -Understanding Life Systems, Grade 4 (Habitats and Communities)  |

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| Three Times a<br>Day (WC) | Brushing your teeth throughout the day is important; learn how to conserve water during this daily activity so you can have a positive impact on the environment. | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 3 (Forces Causing Movement)</li> <li>- Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)</li> </ul>   |
| Toxic Tiny Town<br>(WP)   | Hazardous waste is all around us. Using this enviroscape, Find out how this waste impacts our water resources and how to properly dispose of it.                  | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>- Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> <li>- Understanding Earth and Space Systems, Grade 3 (Soils in the Environment)</li> <li>- Understanding Earth and Space Systems, Grade 4 (Rocks and Minerals)</li> <li>- Understanding Life Systems, Grade 2 (Growth and Changes in Animals)</li> <li>- Understanding Life Systems, Grade 4 (Habitats and Communities)</li> </ul> |
| Treating Trash<br>(WT)    | Race to test your garbage sorting knowledge! Is it garbage, hazardous waste, recycling or compost?  | <ul> <li>Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> <li>Understanding Life Systems, Grade 4 (Habitats and Communities)</li> <li>Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)</li> </ul>   |
| Urban Stew (WP)           | Create an urban stew of pollution and contaminants as you realize what impacts you have on the waterway.  | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>- Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> <li>- Understanding Earth and Space Systems, Grade 3 (Soils in the Environment)</li> <li>- Understanding Earth and Space Systems, Grade 4 (Rocks and Minerals)</li> <li>- Understanding Life Systems, Grade 2 (Growth and Changes in Animals)</li> <li>- Understanding Life Systems, Grade 4 (Habitats and Communities)</li> </ul> |

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|-----------------------------|--|--|
| Water Bodies<br>(WS)        | We Are Water, or at least 60% of our bodies are water. Where does all that water come from and what do we do with it?  | -Number Sense & Numeration, Grade 2 (Operational Sense) - Understanding Life Systems, Grade 2 (Growth and Changes in Animals) -Data Management & Probability, Grade 3 (Collection & Organization of Data) - Understanding Life Systems, Grade 3 (Growth and Changes in Plants) -Understanding Life Systems, Grade 4 (Habitats & Communities) -Understanding Life Systems, Grade 5 (Human Organ Systems)  |
| Water Cycle Tag<br>(WS)     | Learn how water moves through the Water Cycle and its effects on plants by playing a game of tag that simulates the Water Cycle.                                   | <ul> <li>- Understanding Earth &amp; Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Life Systems, Grade 3 (Growth and Changes in Plants)</li> <li>- Understanding Life Systems, Grade 4 (Habitats and Communities)</li> </ul>  |
| Water for<br>Everyone (WT)  | Where does your tap water come from? Take a peek at this life-sized model of a water distribution system to help answer that question.                             | <ul> <li>- Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>- Understanding Structures and Mechanisms, Grade 2 (Movement)</li> <li>- Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> <li>- Understanding Matter and Energy, Grade 3 (Forces Causing Movement)</li> <li>- Understanding Life Systems, Grade 4 (Habitats and Communities)</li> <li>- Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)</li> </ul>       |
| Water for the<br>World (WA) | Work together to build a water filter for your community. Students learn about global issues of literacy and access to clean drinking water in developing nations. | <ul> <li>Canada and World Connections, Grade 2 (Features of Communities Around the World)</li> <li>Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>Canada and World Connections, Grade 3 (Urban and Rural Communities)</li> </ul>  |
| Watery Words<br>(WA)        | Enjoy your time at this quiet station with some Water-focused books. Sit, relax and enjoy some guided reading.   | <ul> <li>Reading (Reading for Meaning, Understanding Form and Style, Reflecting on Reading Skills and Strategies), Grade 2</li> <li>Reading (Reading for Meaning, Understanding Form and Style, Reflecting on Reading Skills and Strategies), Grade 3</li> <li>Reading (Reading for Meaning, Understanding Form and Style, Reflecting on Reading Skills and Strategies), Grade 4</li> <li>Reading (Reading for Meaning, Understanding Form and Style, Reflecting on Reading Skills and Strategies), Grade 5</li> </ul> |

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| We Use that<br>Much (WC)     | Use 2 litre bottles to find out how much water you use for everyday activities such as brushing your teeth or taking a shower   | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 3 (Forces Causing Movement)</li> <li>- Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)</li> </ul>   |
| Weighing Our<br>Choices (WA) | Changes in our behaviours have altered the CO <sub>2</sub> levels in our atmosphere. Try to choose actions to help re-balance the earth.  | - Canada and World Connections, Grade 3 (Urban and Rural Communities) -Understanding Earth and Space Systems, Grade 4 (Rocks and Minerals) -Energy and Control, Grade 5 (Conservation of Energy) -People and Environments, Grade 5 (Role of Gov't and Responsible Citizenship)   |
| Well Drill It (WT)           | Investigate groundwater, how it gets there, how it's extracted and how we use it.   | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>- Understanding Structures and Mechanisms, Grade 2 (Movement)</li> <li>- Understanding Earth and Space Systems, Grade 3 (Soils in the Environment)</li> <li>- Heritage and Citizenship, Grade 3 (Pioneer Life)</li> </ul> |
| Well Sealed (WT)             | This activity consists of two mock wells which are used to illustrate how easily a well can become contaminated resulting in water that is polluted for drinking or other uses. | <ul> <li>- Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment)</li> <li>- Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids)</li> <li>- Understanding Structures and Mechanisms, Grade 2 (Movement)</li> <li>- Understanding Earth and Space Systems, Grade 3 (Soils in the Environment)</li> <li>- Heritage and Citizenship, Grade 3 (Pioneer Life)</li> </ul> |
| Wise Water Use<br>(WC)       | Water the lawn, wash your car, and fill your pool – we use a lot of water outside our homes – let's find out what we can do to reduce the amount we use.                        | Understanding Earth and Space Systems, Grade 2 (Air and Water in the Environment) - Understanding Matter and Energy, Grade 2 (Properties of Liquids and Solids) - Understanding Matter and Energy, Grade 3 (Forces Causing Movement) - Understanding Earth and Space Systems, Grade 5 (Conservation of Energy and Resources)   |

(WA) Water Attitude (WC) Water Conservation (WP) Water Protection (WS) Water Science (WT) Water Technology New stations are highlighted