

- FOF1: Seed Secrets**  
The internal part of a seed will be observed, as will how the seed germinates.
- FOF2: Not All Plants are Created Equal**  
Students will be familiarized with the characteristics of trees in order to assist with tree identification.
- FOF3: Nature's Throwaways**  
The natural cycle of decay in the forest will be explored.
- FOF4: Maple Sugar Bush Activities**  
The process of turning maple sap into maple sugar is explored.
- FOF5: From Buds to Leaves**  
Students will discover and observe how buds will turn into leaves.
- FOF6: Let's Look at Trees**  
An outdoor adventure will compare the physical characteristics of trees, shrubs and other plants.
- FOF7: Forest Soils**  
The structure and formation of soils will be investigated.
- FOF8: Energize a Tree**  
Factors which affect the growth of a plant will be investigated.
- FOF9: Construct a Tree**  
The parts of a tree will be identified and demonstrated how they fit together.
- FOF10: Seed Sort**  
Students will collect, examine and classify various seeds to determine their unique qualities.
- FOF11: Stumped**  
The importance of tree stumps and decaying logs to the forest community will be explored.
- FOF12: Sweet Deal**  
How people use sugar maple trees to gather sap to make maple syrup will be explored.
- FOF13: The Eco-Buddy System**  
Students will explore their own sense of community and demonstrate an awareness that animals and plants depend on their environment to meet their basic needs.
- FOF14: The Urban Jungle**  
Students will discover and describe trees in the urban environment, while improving their observation skills and ability to gather data.

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- FOF15: The Wonderful World of Seeds**  
Seed germination will be observed and described. Students will design experiments, testing their hypothesis for each one.
- FOF16: Trees Need Us, We Need Trees**  
Students will plant and care for trees.
- FOF17: Curious About Cones**  
Different types of cones will be collected, observed and identified.
- FOF18: Forest Connections**  
Forest ecosystem composition, structure and function will be examined.
- FOF19: Hot Stuff!**  
The effects of fire on habitats will be observed and a new creature that has adapted to the environmental changes will be created.
- FOF20: Invent a Forest Creature**  
The concept of an ecological niche within the forest community will be explored.
- FOF21: Mini-Forest in the Schoolyard**  
A small scale environment will be observed.
- FOF22: Shelter Me**  
A schoolyard habitat and a forest habitat will be investigated and compared, as well as the species found in each location.
- FOF23: Hidden Colours of Leaves**  
Leaf pigments will be examined.
- FOF24: Exploring Ecosystems**  
Interaction of plants, animals and fungi in a forest ecosystem will be explored.
- FOF25: Change in Forest Ecosystems**  
The importance of fire in natural regeneration of certain boreal tree species will be examined.
- FOF26: Nature's Drinking Straws**  
Students will investigate how trees draw water from the soil, and will understand how plants are part of the water cycle.
- FOF27: Predicting the Impacts of Change**  
A woodland ecosystem example will be researched by assessing the impact of potential natural and/or technological change.
- FOF28: Private Woodlands: Challenges and Solutions**  
Students will design methodologies to implement and evaluate their proposed actions.
- FOF29: The Choice is Ours**  
Students will be given a forest management scenario and will use problem-solving skills to provide solutions.

- FOF30:*       **The Importance of Forests**  
An appreciation of the importance of forests in our daily lives will be encouraged.
- FOF31:*       **Trees at Home**  
Students will develop awareness that animals and plants depend on their environment to meet their basic needs.
- FOF32:*       **Turning Over a New Leaf**  
Students will be introduced to forest biotechnology and they will establish a set of criteria to evaluate biotechnology activities.
- FOF33:*       **Forest Folks**  
Jobs that depend on the forest will be explored and examined.
- FOF34:*       **Paths to the Forest**  
The social, economic and environmental impacts of forest management activities will be researched and analyzed.
- FOF35:*       **The Heat is On!**  
Students will predict the impacts of climate change on a local forested environment.
- FOF36:*       **A Fine Balance**  
Students will participate in role playing in a public forum where decisions about forest harvesting will be debated.
- FOF38:*       **Autumn Adventures**  
Students will gain an understanding of why leaves change colour and what happens to them after they fall.
- FOF39:*       **Branch Management**  
Students will research and analyze the social economic and environmental impacts of forest management activities and defend a forest management project by preparing for a mock environmental assessment.
- FOF40:*       **Have I Got a Deal for You!**  
Students will describe the ways in which plants and trees are important to other living things through a media literacy activity. They will also explore the importance of habitat for a variety of species.
- FOF41:*       **Weird Wood Products**  
Students will explore the important of plants to other living things by investigating a particular thing made from trees.
- FOF42:*       **Winter: Choices to Make**  
Students will have the opportunity to discover and observe how buds grow into leaves.
- FOF43:*       **Leaf Match**  
To give students an opportunity to recognize that leaves come in different shapes and sizes and that these characteristics can help to identify the tree.

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- FOF44: Life History of a Tree**  
Students will interpret the life history of a tree and to understand some of the factors that affect tree growth by examining tree cross-sections.
- FOF45: Tree Waterworks**  
To observe and understand the importance of the transpiration process in green plants by conducting an experiment showing water vapour loss from leaves.
- FOF46: Dendro Discs**  
To give students an opportunity to examine the cross-section of a tree, determine its age, and make inferences about a tree's growth.
- FOF47: The Forest Sponge**  
To give students an opportunity to demonstrate how forests can help prevent soil erosion.
- FOF48: The Lorax**  
To give students an opportunity to recognize the importance of managing our forests.
- FOF49: Tree Waterworks 2**  
To explore the mechanisms by which water is transported throughout the tree.
- FOF50: Cutting Styles**  
To appreciate that because of ecological, economic, and social reasons, different forest types require different methods of harvesting and to familiarize students with the four harvesting techniques used in Canada.
- FOF51: Fire Feelings**  
Students will understand positive and negative effects of wildfire and will begin to form their own opinions about fire ecology.
- FOF52: Reforestation**  
Students will create an environmentally and economically effective plan for regenerating a harvested area and understand common methods of reforestation.
- FOF53: How Trees Grow**  
To understand some of the factors that affect tree growth by observing changes in dormant twigs
- FOF54: Fighting Fire**  
Students will understand the various factors involved in suppressing forest fires.
- FOF55: How Forests Affect the Environment**  
Students will learn to appreciate that trees are complex organisms that play a vital role in the environment.

*FOF56:*

**Tree Keys**

Students will develop the observation and classification necessary to identify trees by developing tree identification keys.

*FOF57:*

**Pulp to Paper**

To understand the importance of the chemical lignin to pulp and paper production and to simulate the age-old process of papermaking by making new paper from old.

