

## **Earth and Space: Grades 1-4**

All of the following workshops fall under the Science and Technology portion of the Ontario School curriculum and are designed to meet both overall and specific expectations as outlined by the ministry.

### **Grades 1&2: Air and Water in the Environment**

Discover the fascinating truth behind air & water and how they interact and change in our environment. In this workshop, we will talk about the importance of air and water in our lives, how they are similar and different and the different states that water can found in. We will also talk about the importance of trees and how they help give us the air we breathe.

#### **What you can expect:**

- Discussion about and experimentation with air molecules, water molecules and hydrogen molecules.
- Colouring and creative craft.
- Hands on exploration of our galleries.
- Discussion about transpiration and trees and exploration of our living wall.

### **Grade 3: Soils in the Environment**

Take a closer look at the amazing world beneath our feet and then perform some tests on different soil samples to determine what's in our soil. In this workshop, we will talk about what soil is and why it is important, what lives in our soil and what nutrients are most important to have in our soil for plant growth.

#### **What to expect:**

- Hands on exploration of different types of soil by using microscopes and magnifying glasses.
- A greater understanding of what nutrients are in the soil by testing and experimentation to see the different levels of nutrients that are present in the soil.
- Booklets about soil to take back to school.
- This workshop can be messy and students will get dirty, it is best not to wear your best clothes.

### **Grade 4: Rocks, Minerals and Erosion**

Identify various minerals and types of rock through hands on tests. Then we'll take a closer look at the fossilization process and then come face to face with our rocking dinosaurs. In this workshop, we will look at the different types of rocks and minerals and what makes them strong or weak. We will also explore and discuss the similarities and the differences that there are between rocks and minerals and work together to classify different rocks according to their type (igneous, sedimentary or metamorphic).

#### **What to expect:**

- Students will learn through hands on exploration what makes a mineral strong and or weak.
- Learn differences between fractures and cleavage in a mineral and about tenacity.
- Students will see how a geologist tests to identify a mineral and through hands on exploration, will perform some of these tests to identify different types of minerals.