



## Up Close and Palaeo Jr. Topics

### Division 1

**Thank you for booking "Up Close and Palaeo Jr." with ATCO Tyrrell Distance Learning!**

This document contains a selection of topics for you to share with your class in an effort to focus the questioning your students will engage in during your program. Please select those topics that you feel fit your current curriculum needs best, then ask your students to formulate their questions based on those topics.

**Note:** Questions do not need to be forwarded to the Royal Tyrrell Museum. However, please ensure all students have a copy on hand at the time of the program.

#### **1. The Ancient Environment: Plants and Animals in the Age of Dinosaurs**

The world was a very different place 70 million years ago, with animals and plants that don't look like those we know today. Think about what you would ask a palaeontologist about the plants and animals in the age of dinosaurs, and what the world was like for them.

- Curriculum connections:
  - Needs of plants and animals (Gr.1)
  - Hot and cold temperatures (Gr.2)

#### **2. Fossil Detectives: Unravelling Prehistoric Mysteries**

Being a palaeontologist is a lot like being a detective! Exploring the mysteries of the Earth's prehistoric past helps us learn more about our present and future. Think about what you would ask a palaeontologist about fossils, fossil exploration and being a palaeontologist.

- Curriculum connections:
  - Senses (Gr.1)
  - Rocks and minerals (Gr.3)

#### **3. The Ice Age: Strange Creatures from the Recent Past**

About 15,000 years ago, much of Canada was covered in a huge sheet of ice called a glacier. It was the last great ice age! Many different creatures migrated to and from North America at that time. Think about what you would ask a palaeontologist about the ice ages and the strange creatures from the recent past.

- Curriculum connections:
  - Needs of plants and animals (Gr.1)
  - Hot and cold temperatures (Gr.2)
  - Animal life cycles (Gr.3)

#### **4. Creepy Crawlies: Small Creatures of the Prehistoric World**

Have you ever gone bug hunting? Wondered what it would be like to be as small as a mouse? There are many, many small animals that have existed over the history of life on Earth; some that crawled on the ground, some that swam in the oceans, and some that flew! Think about what you would ask a palaeontologist about small creatures of the prehistoric world.

- Curriculum connections:
  - Needs of plants and animals (Gr.1)
  - Small crawling and flying animals (Gr.2)

## Topics and Vocabulary for ECS Students

To prepare the students for the program, it may be helpful to use this organizer when planning the introductions of concepts and vocabulary to the students, and to help formulate questions. This is not necessary for the program, but may help the students to engage more with the presenter and to ask in-depth questions.

Who?	What?	Where?	When?	Why/How?
<i>Who are we talking to?</i>	<i>What are we learning about?</i>	<i>Where are the people we are talking to?</i>	<i>When did dinosaurs live?</i>	<i>Why are we learning about these things?</i>
<i>Who are we learning about?</i>	<i>What are we going to see?</i>	<i>Where did dinosaurs live?</i>	<i>Did all animals live at the same time?</i>	<i>Why is it important?</i>
<ul style="list-style-type: none"> <li>• dinosaurs</li> <li>• scientists</li> <li>• palaeontologists</li> <li>• museum</li> </ul>	<ul style="list-style-type: none"> <li>• fossils</li> <li>• museum</li> <li>• palaeontology</li> <li>• what are dinosaurs eat</li> <li>• <i>Tyrannosaurus rex</i></li> <li>• <i>Triceratops</i></li> <li>• other dinosaur names</li> <li>• big and small dinosaurs i.e. <i>big as a...</i> <i>small as a...</i></li> </ul>	<ul style="list-style-type: none"> <li>• Drumheller</li> <li>• Alberta</li> <li>• swamp</li> <li>• jungle</li> <li>• tropical</li> <li>• habitat/home</li> <li>• ocean and land</li> <li>• places where fossils can be found</li> </ul>	<ul style="list-style-type: none"> <li>• ancient</li> <li>• millions of years ago</li> <li>• ice age</li> <li>• extinct</li> </ul>	<ul style="list-style-type: none"> <li>• the difference between the past and the present</li> <li>• things that lived a long time ago</li> <li>• why did dinosaurs go extinct</li> <li>• how fossils are discovered</li> <li>• how fossils are excavated</li> <li>• tools used for digging fossils</li> </ul>