ROYAL TYRRELL MUSEUM

Distance Learning

Virtual Visit Program Overview

PROGRAM DESCRIPTION

Tour the world-renowned galleries of the Royal Tyrrell Museum of Palaeontology during this interactive virtual visit. Marvel at creatures from ancient seas, explore Dinosaur Hall, and discover how life carried on after the asteroid impact that marked the end of the Age of Dinosaurs.

Audience: Kindergarten – Grade 12, general public * (maximum 35 students)

ALBERTA CURRICULUM CONNECTIONS

Kindergarten	Environmental and Community Awareness
Grade 1 Science	Needs of Animals and Plants
Grade 2 Science	Small Crawling and Flying Animals
Grade 3 Science	Animal Life Cycles
Grade 4 Science	Plant Growth and Changes; Alberta: The Land, Histories and Stories
Grade 5 Science	Wetland Ecosystems
Grade 6 Science	Evidence and Investigation
Grade 7 Science	Interactions and Ecosystems: Planet Earth
Grade 8 Science	Freshwater and Saltwater Systems
Grade 9 Science	Biological Diversity
Grade 10 Science 10	Energy Flow in Global Systems
Grade 11 Science 20	The Changing Earth: Changes in Living Systems
Grade 11 Biology 20	Ecosystems and Population Change
Grade 12 Biology 30	Change in Population and Communities

PROGRAM OBJECTIVES

Participants will:

1. Gain a stronger, broader understanding of the history of life on Earth
2. Understand that time is divided into bigger and small amounts, to help scientists understand the different periods in Earth's history
3. Learn more about different types of animals and plants that lived on our planet

PRE-PROGRAM Have the participants seated in rows all in view of the camera.

PROGRAM FORMAT – 45 MINUTES

1. Introduction to the Royal Tyrrell Museum
2. What is palaeontology?
3. Introductory galleries
4. Introduction to geologic time
5. The Palaeozoic Era
6. The Mesozoic Era
7. The Cenozoic Era
8. Questions and conclusion

KEY TERMS

Cenozoic Era	"New life," the time after the dinosaurs. Comprising the Palaeogene, Neogene (formerly the Tertiary period), and the Quaternary period.
Fossil	The remains or impression of a prehistoric organism preserved in petrified form or as a mold or cast in rock.
Geologic Time	The interval of time occupied by Earth's geologic history. Can be split into eras, periods, and epochs.
Geology	The scientific study of origin, history, and structure of the Earth.
Mesozoic Era	"Middle life," the time of the dinosaurs. Comprising the Triassic, Jurassic, and Cretaceous periods.
Palaeontology	The study of ancient life on Earth based on the fossil record.
Palaeozoic Era	"Old life," the time before dinosaurs. Comprising the Cambrian, Ordovician, Silurian, Devonian, Carboniferous, and Permian periods.
Permineralization	The type of fossilization in which minerals are deposited into the pore spaces of the originally hard parts of organisms.