

TEACHER'S GUIDE

ROYAL TYRRELL MUSEUM 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.

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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	An animal that feeds exclusively on meat.
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.