

PIQ: TEST YOUR PALAEO INTELLIGENCE

Teacher Resource Guide

Program Overview

PROGRAM DESCRIPTION: Test your Palaeo IQ! During this fast-paced program, students will play through five rounds of palaeontology games to help their dinosaur escape an erupting volcano. Working in small groups and practicing teamwork, they will identify fossils, name dinosaurs, and guess what ancient creatures would eat for lunch!

AUDIENCE: Grades K - 2 *(maximum 25 students)

Curriculum Connections

Kindergarten Science: Movements of Animals;
Examine and Describe Environments

Grade 1 Science: Understanding Movement; Environmental Change;
Needs of Animals and Plants, Scientific Investigation

Grade 2 Science: Earth and Landforms; Growth of Animals and Plants;
Investigation Methods

Program Objectives

Students will be able to:

1. Gain a stronger, broader understanding of the history of life on Earth.
2. Learn more about different types of animals and plants that lived on our planet.
3. Practice teamwork skills by working together in groups.

Pre-program:

1. Have the students divided in teams on the floor. There can be up to 5 teams of 5 students. All of the teams should be in view of the camera.

Program Format

1. Introduction to Palaeontology.
2. Introduction to the Game.
3. Challenge 1: Critter Count
 - Students count the critters crossing the screen that are a specific colour of their choice.
4. Challenge 2: Name that Dinosaur
 - Students guess the name of a dinosaur being drawn.
5. Challenge 3: True or False?
 - Students are challenged with a series of true or false questions that cover various ideas about palaeontology.
6. Challenge 4: Fossil Frenzy
 - Students identify various fossils.
7. Challenge 5: What's for Lunch?
 - Students decide what an ancient animal would like to have for lunch.
8. Questions and conclusion.

Key Terms

Following are some terms to introduce to your class. These terms will prepare the students so they will get the full benefit of the program.

Brachiosaurus: "Armed lizard", derived from its long front limbs.

Dinosaur: Extinct reptile that lived 230–66 million years ago and lived mainly on land. Ranged from the size of a chicken to the largest animal ever known to walk on Earth.

Fossil: The remains, traces, or imprint of a prehistoric organism preserved in rock.

Palaeontology: The study of ancient life on Earth based on the fossil record.

Stegosaurus: "Roofed reptile", referring to the plates on its back.

Triceratops: "Three horn face", derived from the three horns on its face.

Tyrannosaurus rex: "Tyrant lizard king", from its large size compared to other meat-eating dinosaurs.

Velociraptor: "Fast thief", a small meat-eating dinosaur, resembles modern birds of prey.