



## Fascinating Fossils

Target Grade Levels: 4 - 6

Thursday, September 24, 2020 | 10:10 a.m. MDT

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Target Grades Levels: 3-8

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### Overview

New fossils are found almost every day! Where do they come from? How do paleontologist know where to begin looking? How are fossils formed? Explore real fossils from the Museum of the Rockies' collection to learn more about life on earth millions of years ago.

### Student Objectives

Students will be able to:

1. Define what a fossil is.
2. Understand that fossils within the geologic time scale help explain the history of planet Earth.
3. Reference the fossil record to express that different species occupied the planet at different times.

### Standards Alignment

#### Montana Science Standards

Grade	Subject Area	Content Standard <i>Each student will:</i>
3 <sup>rd</sup>	Life Science	Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago
4 <sup>th</sup>	Earth & Space Science	Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time
5 <sup>th</sup>	Earth & Space Science	Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, or atmosphere interact
6 <sup>th</sup> -8 <sup>th</sup>	Life Science	Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and

		change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in the past
6 <sup>th</sup> -8 <sup>th</sup>	Earth & Space Science	Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6 billion-year-old history

### Next Generation Science Standards

Discipline and Core Idea	<i>Students who demonstrate understanding can:</i>
3-LS4-1. Interdependent Relationships in Ecosystems	Analyze and interpret data from fossils to provide evidence of the organisms and the environments in which they lived long ago.
4-ESS1-1. Earth's Systems: Process that Shape the Earth	Identify evidence from patterns in rock formations and fossils in rock layers to support an explanation for changes in a landscape over time.
5-ESS-1. Earth's Systems	Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.
MS-LS4-1. Natural Selection and Adaptations	Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in the past.
MS-ESS1-4. History of Earth	Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history