

Congruence with the NGSS

Unit Title: The Fossil Record and Evolution

Science and Engineering Practices (SEPs)

SEPS	Activities
Asking Questions and Defining Problems	Deep History of Life on EarthDigging up dinosaurs
Developing and Using Models	 Deep History of Life on Earth The Fossil Record Dinosaur Tracks: From Stride to Leg Length to Speed
Planning and Carrying Out Investigations	Dinosaur Tracks: From Stride to Leg Length to Speed
Analyzing and Interpreting Data	 Dinosaur Tracks: From Stride to Leg Length to Speed The Deep History of a Living Planet
Using Mathematics and Computational Thinking	Dinosaur Tracks: From Stride to Leg Length to Speed
Engaging in Argument from Evidence	 Deep History of Life on Earth The Deep History of a Living Planet Digging up dinosaurs
Obtaining, Evaluating and Communicating Information	 Deep History of Life on Earth The Deep History of a Living Planet
Scientific Knowledge is based on Empirical Evidence	 Deep History of Life on Earth The Deep History of a Living Planet

Disciplinary Core Ideas (DCIs)

DCIs	Activities
ESS1B: Earth and the Solar System	The Deep History of a Living Planet
ESS1C: The History of Planet Earth	 Life evolves on a dynamic Earth and continuously modifies Earth Deep History of Life on Earth Digging up Dinosaurs
ESS2A: Earth Materials and Systems	The Deep History of a Living Planet
ESS2B: Plate Tectonics and Large-Scale Systems	 Deep History of Life on Earth The Deep History of a Living Planet



ESS2D: Weather and Climate	The Deep History of a Living Planet
ESS2E: Biogeology	 Life evolves on a dynamic Earth and continuously modifies Earth Deep History of Life on Earth Digging up Dinosaurs
ESS3A: Natural Resources	Deep History of Life on Earth
ESS3B: Natural Hazards	 Deep History of Life on Earth The Deep History of a Living Planet
ESS3C: Human Impacts on Earth's Systems	Life evolves on a dynamic Earth and continuously modifies Earth
ESS3D: Global Climate Change	The Deep History of a Living Planet

Cross Cutting Concepts (CCCs)

CCCs	Activities
Patterns	 The Fossil Record Digging up Dinosaurs Dinosaur Tracks: From Stride to Leg Length to Speed
Cause and Effect	 Life evolves on a dynamic Earth and continuously modifies Earth Dinosaur Tracks: From Stride to Leg Length to Speed The Fossil Record Deep History of Life on Earth
Systems and System Models	 Dinosaur Tracks: From Stride to Leg Length to Speed Deep History of Life on Earth
Structure and Function	 The Fossil Record The Deep History of a Living Planet Digging up Dinosaurs
Stability and Change	 Life evolves on a dynamic Earth and continuously modifies Earth The Fossil Record Deep History of Life on Earth
Interdependence of Science, Engineering and Technology	 Digging up Dinosaurs Dinosaur Tracks: From Stride to Leg Length to Speed
Influence of Engineering, Technology and Science on Society and the Natural World	Deep History of Life on Earth