

Congruence with the NGSS

Unit Title: **Journey to the Center of the Earth**

Science and Engineering Practices (SEPs)

SEPS	Activities
Asking Questions and Defining Problems	<ul style="list-style-type: none"> Determining and Measuring Earth's Layered Interior Why is the Earth Still Hot Inside? How Do We Know What's Inside Earth? Annenberg Learner: Dynamic Earth
Developing and Using Models	<ul style="list-style-type: none"> Determining and Measuring Earth's Layered Interior Annenberg Learner: Dynamic Earth
Planning and Carrying Out Investigations	<ul style="list-style-type: none"> Why is the Earth Still Hot Inside? Determining and Measuring Earth's Layered Interior
Analyzing and Interpreting Data	<ul style="list-style-type: none"> Why is the Earth Still Hot Inside? Determining and Measuring Earth's Layered Interior Layers of the Earth Hotspot Theory and Plate Velocities
Using Mathematics and Computational Thinking	<ul style="list-style-type: none"> Why is the Earth Still Hot Inside? Determining and Measuring Earth's Layered Interior Hotspot Theory and Plate Velocities
Constructing Explanations and Designing Solutions	<ul style="list-style-type: none"> How Do We Know What's Inside Earth?
Engaging in Argument from Evidence	<ul style="list-style-type: none"> Why is the Earth Still Hot Inside? Hotspot Theory and Plate Velocities Determining and Measuring Earth's Layered Interior
Obtaining, Evaluating and Communicating Information	<ul style="list-style-type: none"> Layers of the Earth Annenberg Learner: Dynamic Earth
Scientific Knowledge is based on Empirical Evidence	<ul style="list-style-type: none"> Why is the Earth Still Hot Inside? Hotspot Theory and Plate Velocities Determining and Measuring Earth's Layered Interior Layers of the Earth Hotspot Theory and Plate Velocities

Disciplinary Core Ideas (DCIs)

DCIs	Activities
ESS3B: Natural Hazards	<ul style="list-style-type: none"> Measuring Earth's Vital Magnetic Field

Cross Cutting Concepts (CCCs)

CCCs	Activities
Patterns	<ul style="list-style-type: none"> Determining and Measuring Earth's Layered Interior Layers of the Earth Measuring Earth's Vital Magnetic Field Annenberg Learner: Dynamic Earth
Cause and Effect	<ul style="list-style-type: none"> Why is the Earth Still Hot Inside? Hotspot Theory and Plate Velocities Determining and Measuring Earth's Layered Interior
Scale, Proportion, and Quantity	<ul style="list-style-type: none"> Determining and Measuring Earth's Layered Interior Layers of the Earth Annenberg Learner: Dynamic Earth Hotspot Theory and Plate Velocities
Systems and System Models	<ul style="list-style-type: none"> Determining and Measuring Earth's Layered Interior Layers of the Earth
Energy and Matter	<ul style="list-style-type: none"> Why is the Earth Still Hot Inside? Hotspot Theory and Plate Velocities Determining and Measuring Earth's Layered Interior Layers of the Earth
Structure and Function	<ul style="list-style-type: none"> Determining and Measuring Earth's Layered Interior Layers of the Earth Annenberg Learner: Dynamic Earth
Stability and Change	<ul style="list-style-type: none"> Determining and Measuring Earth's Layered Interior Layers of the Earth
Interdependence of Science, Engineering and Technology	<ul style="list-style-type: none"> Determining and Measuring Earth's Layered Interior Layers of the Earth Measuring Earth's Vital Magnetic Field Hidden Portals in Earth's Magnetic Field
Influence of Engineering, Technology and Science on Society and the Natural World	<ul style="list-style-type: none"> How Do We Know What's Inside Earth?