

Overview of ESS Unit 5 Earth History/Global Change

Content Focus	Duration	Instructional Outcomes
Introduction to Project: Future Newspaper Front page <i>Students will be presented with RFP and Project Scoring Tool.</i>	1 Day	<ul style="list-style-type: none"> • Students will learn to specify criteria and constraints for the design of the project. • Students will identify the types of evidence that scientist look at when making predications about changes in Earth’s systems.
		Future Newspaper Front Page Project Connection: <i>Students will investigate the basic Earth’s spheres and brainstorm about how these spheres change over time. They will be introduced to the different types of evidence scientists use to make predictions about changes in Earth’s systems.</i>
Earth’s History <i>The analysis of the record contained in rock layers, sediments, and glacial ice reveals past patterns of global change.</i>	8 Days	<ul style="list-style-type: none"> • Students will apply geological principles used to date Earth’s geologic and biological events. • Students will identify and explain how relative and absolute dating provides evidence of Earth’s History.
		Future Newspaper Front Page Project Connection: <i>Students will use evidence gathered from relative and absolute age dating to make predictions about the environmental future of their location.</i>
Global Change <i>Events and patterns both within the Earth systems and in the surrounding space environment have changed Earth.</i>	5 Days	<ul style="list-style-type: none"> • Students will compare events in Earth’s history that have grouped according to similarities. • Students will describe the geological time scale and identify major events.
		Future Newspaper Front Page Project Connection: <i>In order for students to make predictions about the environmental future of their location, they will need to consider events and patterns throughout Earth’s history that have impacted the environment.</i>
Future Newspaper Front Page Project Evaluation <i>Final Projects will be displayed and evaluated.</i>	2 Days	<ul style="list-style-type: none"> • Students will learn that design is a creative planning process that leads to useful systems and that design usually requires taking constraints into account.
		<i>Students will apply the knowledge they have gained throughout the entire unit sequence to create a futuristic newspaper article.</i>