

# 8<sup>th</sup> Grade Earth Science Lesson Plans

## Lesson Plan 1:

Unit – The Changing Surface of the Earth

Chapter(s) – Landforms	- Weathering	-Viewpoint
- The Nature of Soil	- Surface Water	- Groundwater
- Maps	- Soil Erosion	- Erosion by Gravity
- Glaciers	- Wind	- Ocean Shoreline

## Standard(s):

8.E.1.2. Students are able to explain the role of plate tectonics in shaping Earth.

8.E.1.5. (Analysis) Explain the impact of weathering and erosion on the Earth.

8.E.1.4. (Application) Examine the chemical and physical properties of the ocean to determine causes and effects of currents and waves.

8.S.1.1. (Comprehension) Describe how science and technology have been influenced by social needs, attitudes, and values.

## Materials:

*Glencoe Earth Science* textbook (red cover)  
(Borrow from ESA/EDEC Lending Library)

- \* 3D Landforms Set (grades 3-10)
- \* Relief Map of the US (grades 5-8)
- \* Topographic Map Reading Kit (grades 5-8)
- \* Landform Discovery Pack (grades 5-8)

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Use with lesson plan 1: **BOLD DATES INDICATE LENDING MATERIALS**

Monday	Tuesday	Wednesday	Thursday	Friday
<p><b>5</b></p> <p>Intro. Viewpoints/Maps</p> <p>Outline notes</p>	<p><b>6</b></p> <p>Viewpoints/Maps</p> <p>Outline notes</p>	<p><b>7</b></p> <p>Lab: Mystery landforms &amp; reading maps</p>	<p><b>8</b></p> <p>Brain Pop</p> <p>Virtual lab: Identifying features</p>	<p><b>9</b></p> <p><b>Mini lab: Relief &amp; Topography maps</b></p>
<p><b>12</b></p> <p>Intro. Maps &amp; Landforms</p> <p>Outline notes</p>	<p><b>13</b></p> <p><b>Lab stations: Landform Discovery Kit</b></p> <p>6 stations – 2 per day</p>	<p><b>14</b></p> <p><b>Lab stations: Landform Discovery Kit</b></p>	<p><b>15</b></p> <p><b>Lab stations: Landform Discovery Kit</b></p>	<p><b>16</b></p> <p><b>Lab stations: Landform Discovery Kit</b></p> <p>Finish incomplete questions</p>

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### Lesson Plan 2:

Unit – Earth's Air and Water

Chapter(s) – Earth's Atmosphere

- What is Weather?
- Weather Patterns
- Weather Forecasts

### Standard(s):

8.E.1.3. (Analysis) Explain the factors that create weather and the instruments and technologies that assess it.

8.E.1.5. (Analysis) Explain the impact of weathering and erosion on the Earth.

8.S.2.1. (Synthesis) Given a scenario, offer solutions to problems created by human activity on the local, regional, or global environment.

### Materials:

*Glencoe Earth Science* textbook (red cover)

(Borrow from ESA/EDEC Lending Library)

- Weather Forecasting Video Lab (grades 5-12)

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Example lesson plan 2: **BOLD DATES INDICATE LENDING MATERIALS**

Monday	Tuesday	Wednesday	Thursday	Friday
<p><b>12</b>  <b>Start Weather Unit</b>  <b>Weather</b>  <b>Forecasting Video</b>  <b>Lab</b></p>	<p><b>13</b>                      Section 1 notes                      Determine dew pt.</p>	<p><b>14</b>                      Weather patterns                      Section 2 notes</p>	<p><b>15</b>  <b>Weather</b>  <b>Forecasting Video</b>  <b>Lab</b></p>	<p><b>16</b>                      Weather forecasts                      Section 3 notes</p>
<p><b>19</b>                      Virtual lab:                      Forecasting</p>	<p><b>20</b>  <b>Weather</b>  <b>Forecasting Video</b>  <b>Lab</b></p>	<p><b>21</b>  <b>Weather</b>  <b>Forecasting Video</b>  <b>Lab</b></p>	<p><b>22</b>  <b>Weather</b>  <b>Forecasting Video</b>  <b>Lab</b></p>	<p><b>23</b>                      Lab: Reading a                      weather map</p>