**Weathering and Erosion**

**Description:**

The earth’s topography changes through mechanical or chemical weathering of rock and through erosional transportation of the weathering products. This chapter will help you understand how the processes of erosion, especially soil erosion, can have an impact on your daily lives.

**Textbook Chapters:**

5. Weathering and Erosion

**Section 1: Weathering**

**Section 2: Soil**

**Section 3: Mass Movements**

**State Standards:**

E.S. 1.25 Investigate and discuss the origin of various landforms, such as mountains and rivers, and how they affect and are affected by human activities.

E.S. 1.26 Differentiate among the processes of weathering, erosion, transportation of materials, deposition, and soil formation.

E.S. 1.27 Illustrate the various processes that are involved in the rock cycle and discuss how the total amount of material stays the same through formation, weathering, sedimentation, and reformation.

**Objectives:**

5.1 Weathering, pp. 126–132

5.1 Define mechanical weathering.

5.2 Explain chemical weathering.

5.3 Identify the factors that affect the rate of weathering.

5.2 Soil, pp. 133–142

5.4 Recognize the major components of soil and list the most important factors in soil formation.

5.5 Explain how soil varies with depth.

5.6 Compare and contrast the three common types of soil.

5.7 Demonstrate how human activities affect the rate of soil erosion.

5.3 Mass Movements, pp. 143–147

5.8 Define mass movement.

5.9 Identify the factors that trigger mass movements.

5.10 Classify mass movements.

**Learning Activities:**

1. Discussion/Lecture on Weathering and Erosion

2. Discussion/Lecture on Soils, Farming Methods and Mass Movements

3. Soils and Erosion Lab

4. Weathering and Erosion Review

5. Public Service Announcements on Mass Movements