

# Eastport South Manor Junior-Senior High School

*"Commitment to Excellence"*

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## WEEKLY OBJECTIVES

**Subject:**

**Week #: 8**

**Date: 10/21**

**Teacher: Spadafora, Walter, Plymale, Hauer, Bothwell, Rienke**

Topic: Topographic Maps/Minerals

Learning Objectives:

1. Students will be able to calculate gradient using contour line values as well as relative closeness of contour lines
2. Students will be able to create a topographic profile of an area using a contour map
3. Students will be able to identify minerals based on observable properties such as color, hardness, streak, cleavage, fracture or luster.
4. Students will be able to conclude the properties of a mineral are based on the chemical arrangement of the atoms.

Instructional Strategies:

5. ELA Shift 3- Staircase of Complexity- Appropriate texts- Charts, Graphs, Dichotomous key for identifying minerals rocks and their properties
6. Mathematics Shift 4- Deep Understanding- Applying knowledge in different situations- Experimental Labs- creating a topographic map
7. Mathematics Shift 5- Application- Applying knowledge to real world situations- identifying actual hand samples of minerals
8. ELA Shift 5- Writing from sources- defending identification of rocks and minerals using supporting arguments from text

Learning Activities (Technology/DI):

9. Smart board notes
10. Mineral Lab
11. Topographic map lab

Assessment/Data:

1. Test Topic #2
2. Intro to Minerals pre quiz

Other: