

Eastport South Manor Junior-Senior High School

"Commitment to Excellence"

WEEKLY OBJECTIVES

Subject:

Week #: 23

Date: 2/7/14

Teacher: Spadafora, Walter, Plymale, Hauer, Reinke, Bothwell, Starbuck

Topic: Earthquakes

Learning Objectives:

1. Students will be able to compare P and S waves to determine the distance of an Earthquake
2. Students will be able to calculate differences in arrival time of P and S seismic waves
3. Students will be able to locate the epicenter of an earthquake using the P and S Wave travel time graph
4. Students will be able to calculate the origin time of an earthquake using seismic data

Instructional Strategies:

1. ELA Shift 3- Staircase of Complexity- Appropriate texts- Charts & Graphs used to P & S wave arrival time and earthquake origin time
2. Mathematics Shift 5- Application- Applying knowledge to real world situations- recognizing patterns in difference in arrival time and distance to earthquakes
3. Mathematics Shift 2- Coherence Principals and teachers carefully connect the learning within and across grades- practicing time math and graph usage from previous grades as well as across curriculums

Learning Activities (Technology/DI):

1. Smart board notes
2. Earthquake lab
3. Epicenter location practice

Assessment/Data:

1. Earthquake location quiz
2. ESRT Quiz

Other:

