**UNIT 2 – Plate Tectonics**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Unit 2 Day 1 Tues 9/4 | Unit 2 Day 2 9/5 | Unit 2 Day 3 9/6 | Unit 2 Day 4 9/7 | Unit 2 Day 5 Monday 9/10 |
| Objective | 2.1.1 Explain how, plate tectonics, volcanoes and earthquakes impact the lithosphere.Identify and explain the various mechanisms responsible for the movement of lithospheric plates. | 2.1.1 Explain how, plate tectonics, volcanoes and earthquakes impact the lithosphere.Explain relationships between types of boundaries and various geologic features. | 2.1.1 Explain how, plate tectonics, volcanoes and earthquakes impact the lithosphere.Explain the relationship between faults and boundaries.  | 2.1.1 Explain how plate tectonics impact the lithosphere. | 2.1.2 Predict the locations of volcanoes, earthquakes and faults based on various maps.Describe the release of energy in an earthquake and identify focal point, epicenter and waves produced. |
| Quiz/Test |  |  |  | Unit 2 Quest |  |
| Skill Building | **Notes:** Earth’s Interior & Tectonic Theories**Video**: [When Continents Collide](https://www.youtube.com/watch?v=PddQvyiBfdc)**Activity:** Plate Puzzle & Questions | **Discussion:** Unit 1 Quest results**Warm-up**: Plate Tectonics**Practice**: Seafloor Spreading & Convection Currents WS**Activity**: pHet Plate Tectonics | **Warm-up:** Geological Features**Lab**: Introduction of Geohazards Project **Notes**: Faults**Activity**: Modeling Faults | **Assessment**: Unit 2 Quest**Research:** Work on Geohazards Project Research | **Warm-up:** Faults**Stations**: Geologic Hazards |
| Handouts & Materials | Unit 1 quest resultsPlate puzzle sheetsworksheets | Seafloor Spreading worksheetspHet lab sheets | Geohazards Lab HandoutMini marshmallowsToothpicks, Sandwich bagsFault sheets & Fault WS | Unit 2 QuestScantrons | Stations & laptops |
| Homework: | Complete Media Eval Qs & finish Plate Puzzle Questions | Unit 2 Study Guide: Vocab 1-10 & Questions 1-3 | Unit 2 Study Guide: Vocab 11-20 & Questions 4-6 | Lab Write-up | Finish Lab Write-up |
| Due Dates: |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Unit 2 Day 6 Tues 9/11 | Unit 2 Day 7 Wed 9/12 | Unit 2 Day 8 Thurs 9/13 | Unit 2 Day 9 Fri 9/14 |  |
| Objective | 2.1.2 Predict the locations of volcanoes, earthquakes and faults based on various maps.2.1.4 Explain the probability and preparation for geologic hazards in an area based on data. | Summarize major geologic events in the history of North Carolina.Explain precautions that can be taken to reduce impact to the biosphere from geologic hazards. | 2.1.1 Explain how, plate tectonics, volcanoes and earthquakes impact the lithosphere.2.1.2 Predict the locations of volcanoes, earthquakes and faults based on various maps.2.1.4 Explain the probability and preparation for geologic hazards in an area based on data. | 2.1.1 Explain how, plate tectonics, volcanoes and earthquakes impact the lithosphere.2.1.2 Predict the locations of volcanoes, earthquakes and faults based on various maps.2.1.4 Explain the probability and preparation for geologic hazards in an area based on data. |  |
| Quiz/Test |  |  |  | Unit 2 Test |  |
| Skill Building | **Stations**: Geologic Hazards | **Warm-up:** Geo-hazards**Jigsaw Activity**: Formation of the Appalachian Mtns**Video**: [650 Million Yrs in 2 min](https://www.youtube.com/watch?v=NYbTNFN3NBo) | **Warm-up:** Review Qs**Check & Discuss**: Study Guides **Review**: Formative Assessment | **Assessment**: Unit 2 Test**Activity**: Rock Cycle |  |
| Handouts & Materials | Stations & laptops |  |  |  |  |
| Homework: | Unit 2 Study Guide: Questions 7, 9-11 | Unit 2 Study Guide: Question 8 & Additional Problems 1-5 | Formative Assessment Review |  |  |
| Due Dates: |  |  | **Unit 2 Study Guide**  | **Warm-ups** |  |

**\*\*Geological Hazards Project Due Day after Unit 2 Test**