Chapter 6, Sections 1-3 Earthquakes

6-1 - Forces in Earth’s Crust

a. Explain how stress on the crust changes the Earth’s surface
b. List the three main types of stress
c. Describe where faults are found and why they form
d. Identify and describe the land features that result from the forces of plate movement (anticlines and synclines, folded mountains, fault-block mountains, and plateaus)

1. Read pages 162-165 and complete the reading guide PART 1
2. Read pages 166-168 and complete reading guide PART 2
3. Vocabulary (15 words)
   stress  tension  compression  shearing  normal fault
   hanging wall  foot wall  reverse fault  strike-slip fault  anticline
   syncline  volume  deformation  ductile  brittle
4. Flipped Video: Parts of a Fault
5. Lab: Stress and Faulting – Dough Lab
6. Section 1 Assessment Questions page 168 # 1 b,c; # 2 b,c; # 3 b
7. Stress and Faulting Flipbook

6-2 - Earthquakes and Seismic Waves

a. Describe what an earthquake is and the parts of an earthquake
b. Describe Primary, Secondary, and Surface waves
c. Describe how the energy of an earthquake travels through the Earth
d. List and describe the scales used to measure the strength of an earthquake (Mercalli, Richter, and Moment Magnitude)
e. Explain how scientists locate the epicenter of an earthquake

8. Read pages 169-175 and complete reading guide
9. Vocabulary (11 words)
   earthquake  focus  epicenter  P wave  S wave  seismograph
   surface wave  Mercalli Scale  magnitude  Richter Scale  moment magnitude scale
10. Flipped Video: Finding the Epicenter
11. Discover Activity: How Do Seismic Waves Travel Through Earth? (page 169)
6-3 - Monitoring Earthquakes

a. Describe how a seismograph works
b. Explain how geologists monitor faults
c. Explain how we use data from seismographs

17. Read pages 178-179 and 182-183 and complete reading guide

18. Vocabulary (4 words)
   Seismogram  seismologist  friction  monitor

19. Flipped Video: Can Animals Predict Earthquakes

20. Lab: Friction Along Faults

21. Section 3 Assessment Questions # 1 b,c; # 3 a, b, c

22. Lab: Design a Seismograph

23. Section Summary – Monitoring Faults

24. Review and Reinforce – Monitoring Faults

Test Review

25. Read Study Guide page 194

26. Review pages 195-196

27. Chapter 6, Sections 1-3 Test - _________________________


29. Movie – “Bill Nye Earthquakes”

Chapter Assessments

✓ Forces in Earth, Earthquakes and Seismic Waves Quiz
✓ Stress and Faulting Lab
✓ Finding the Epicenter Lab
✓ Friction Along Faults Lab
✓ Chapter 6 Test, Sections 1-3