

- d) tsunamis.
23. The point of the initial energy release of an earthquake is called the
- a) shadow zone.
 - b) subduction zone.
 - ~~c) focus.~~
 - d) epicenter.
4. The Mohorovicic discontinuity is the boundary between
- a) the lithosphere and the asthenosphere.
 - b) the crust and the mantle.
 - c) the outer core and the inner core.
 - d) the mantle and the outer core.
5. Scientists believe that _____ is really just the tip of a super volcano that is overdue to erupt.
- a) Gary Busey
 - ~~b) Yellowstone National Park~~
 - c) Jellystone National Park
 - d) chickens
- Really?*
- The actor?*

PRACTICE FINAL

CHAPTERS 5, 8-13

Chapter 5: Temperature & Heat

- Sec. 5.1, Temperature
 - Conversion: Celsius to Fahrenheit
 - Concepts:
Measure of average kinetic energy of molecules of a substance.
No known upper limit, lower limit is absolute zero
- Sec. 5.2, Heat
 - is a form of energy, in joules (J) or calories (cal)
 - Specific Heat
 - Latent Heats of fusion and vaporization

Chapter 8: Electricity & Magnetism

- Sec. 8.1, Electric Charge and Force
 - Unit of charge is the coulomb (C)
 - Like charges repel, unlike attract.
 - Force, Equation 8.1
- Sec. 8.2, Current, Voltage, & Electrical Power
 - Electrical resistance, unit ohms (Ω)
 - Current is flow of charge, unit amps (A), Equation 8.2
 - Voltage (V) (electrical potential energy) Eqq. 8.3, 8.4
 - Power, energy per unit time (J/s), Eqq. 8.5, 8.6
- Sec. 8.3, Simple Electrical Circuits (to p. 205 only)

Chapter 8: Electricity & Magnetism

- Sec 8.4, Magnetism
 - Law of poles
 - Magnetic field, Fig. 8.17
- Sec 8.5, Electromagnetism
 - Moving charge (current) creates magnetic field
 - Magnetic field deflects moving charge
 - Motors and Generators - concepts
 - Transformers, Eq. 8.10, Fig. 8.30

Chapter 9: Atomic Physics

- Sec. 9.1, Early Concepts of The Atom
- Sec. 9.2, Photon energy only, Eq. 9.1
- Sec. 9.3, Bohr Theory of the Hydrogen Atom
 - Emission and Absorption Spectra, Fig. 9.9
 - Energy states, pp. 234 - 235 top only. (Not Eq. 9.2 or Fig. 9.11)
 - Study Fig. 9.12
- Sec. 9.7, Electron Cloud Model
 - Fig. 9.21, Electron as a standing wave

Chapter 10: Nuclear Physics

- Sec. 10.2, The Atomic Nucleus
 - Atomic mass and atomic number
 - The strong nuclear force, concept
- Sec. 10.3, Radioactivity and Half-Life
 - Alpha decay and Beta decay, write the equation
 - Half-life, pp. 267-268top, Fig. 10.8
- Sec. 10.5, Nuclear Fission, pp. 275 - 277
- Sec. 10.6, Nuclear Fusion
 - Concept, pp. 280 - 282

Chapter 11: The Chemical Elements

- Sec. 11.1, Classification of Matter
 - Fig. 11.1
- Sec. 11.3, Occurrence of the Elements
 - Atoms, Molecules, and Allotropes
- Sec. 11.4, The Periodic Table
 - Metals and nonmetals
 - Electron configuration, Fig. 11.21

Chapter 12: Chemical Bonding

- Sec. 12.1, Law of Conservation of Mass
- Sec 12.2, Law of Definite Proportions
- Sec 12.3, Dalton's Atomic Theory
 - See the 3 hypotheses on p. 328
- Sec 12.4, Ionic Bonding - Concept only
- Sec 12.5, Covalent Bonding - Concept only
 - Table 12.5

Chapter 13: Chemical Reactions

- Sec 13.1, Balancing Chemical Equations
 - Basic reactions. Study Example 13.1