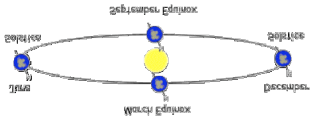
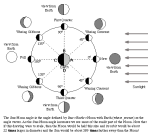


# Earth-Moon-Sun Test
# Motion Relationships
# Study Guide



Read Chapter 12 (Earth, Moon, and Sun) – All Sections – Pages 464 through 495

Study Guide: Page 492 – Know Big Idea and all Key Concepts

Study textbook homework questions:

- Chapter 12, Section 1 Assessment – Page 471
- Chapter 12, Section 2 Assessment – Page 477
- Chapter 12, Section 3 Assessment – Page 485
- Chapter 12, Section 4 Assessment – Page 491
- Review and Assessment – Page 493 (1 – 10)
- Standards Practice – Page 495 (1 – 9)

Study homework worksheets:

- Angle of Insolation

Study Classroom Notes:

- To Every Season There is a Reason
- Our Moon
- Tide Facts

Student Activity:

- Solar Motion Demonstrator
- Angle of Insolation
- It's Just a Phase

Know the following key terms: (* Not located in text glossary)

| | | | |
|---|---|---|---|
| Angle of Insolation* | Ellipse | Orbit | Satellite |
| Apollo Missions* | Equinox | Orion* | Sirius* |
| Astronomy | Gravity | Penumbra | Solar Eclipse |
| Axis | Highland* | Phase | Solstice |
| Azimuth* | Horizon* | Polaris* | Spring Tide |
| Blue Moon * | Limb* | Precession (of Earth)* | Terminator* |
| Collision Theory* | Lunar Eclipse | Revolution | Tide |
| Crater | Maria (mare) | Rille* | Umbra |
| Earth's Axis | Neap Tide | Rotation | Zenith* |

- Know how the "angle of insolation" affects the heating of the earth

- Know what causes tides and the relationship between moon, earth and sun
  -Be able to distinguish between Neap and Spring Tides

- Be able to recognize the name of the season, the location where the Sun's rays strike Earth directly over-head, the beginning day for each, basic length of day at beginning of season

- Be able to recognize the phases of the moon. (Remember if the light is on the right, it is waxing!)

- Know what causes a Lunar Eclipse (the Moon is caught in Earth's shadow). The Earth is located between the Sun and the Moon

- Know what causes a Solar Eclipse (the Moon cast a shadow on the Earth). The Moon is located between the Sun and the Earth.

- Know the main features of the moon

- Be able to use the Solar Motion Demonstrator to explain Earth/Sun relationships

- Know all the numeric (numbers) values presented to you in the notes: examples (but not all): rotation of earth and moon, revolution of earth and moon, weight on moon vs. earth, etc.