

- S6E2 – Students will understand the effects of the relative positions of the Earth, Moon, and Sun.
- 2a – Demonstrate the phases of the moon by showing the alignment of the Earth, Moon, and Sun.
- 2b – Explain the alignment of the Earth, Moon, and Sun during solar and lunar eclipses.
- 2c – Relate the tilt of the Earth to the distribution of sunlight throughout the year and its effect on climate

Papers and activities that should be in Study Folder for S6E2

1. **Vocabulary** – phases of the moon, crescent moon, quarter moon, gibbous moon, new moon, full moon, waxing moon, waning moon, solar eclipse, lunar eclipse, seasons, climate, rotation, revolution, solstice, equinox, umbra, penumbra, mare (maria)
2. Reading Packet: **Astronomy**
3. SRA64A (SRA64A REDO) **Phases of the Moon**
4. Earth and Moon as viewed from space; moon phases viewed from Earth
5. Earth Science Concepts and Challenges Textbook – **What are the phases of the moon?** Pages 338-339 Write and answer all questions including the three (3) questions after reading the paragraphs
6. Foldable – Moon phases – showing the alignment of the Earth, Sun, and Moon during the eight phases, and how the phases appears when viewed from Earth.
7. Data collection for Moon observation – 10/16 thru 11/16 – Creating a lunar calendar
8. Moon Talk worksheet
9. CRCT Test Prep booklet **Phases of the Moon** – pages 43-44 **Do not tear out of booklet!**
10. Online quiz Quia **Phases of the Moon**
11. Written Quiz – Phases of the Moon
12. BrainPop Video – Phases of the Moon quiz Write and answer questions
13. Earth Science Concepts and Challenges – **What causes an eclipse of the Moon?** Pages 342-343 Write and answer all questions including the three (3) questions after reading the paragraphs – Also complete Hands on Activity - Modeling Lunar Eclipses
14. Earth Science Concepts and Challenges – **What causes an eclipse of the Sun?** Pages 344-345 Write and answer all questions including the three (3) questions after reading the paragraphs. **How Do They Know That?** Predicting Solar Eclipses should be read and answer the question at the end of the reading.
15. CRCT Test Prep booklet **Eclipses** Pages 45-46 **Do not tear out of booklet!**
16. SRA65A (SRA65A REDO) **Eclipses**
17. Reading Lesson (**Re-teach**) **Handout What are the phases of the Moon?**
18. Earth Science Concepts and Challenges **What causes the seasons?** Pages 330-331 Write and answer all questions including the two (2) questions after reading the paragraphs
19. Earth Science Concepts and Challenges **What are the solstices and equinoxes?** Pages 332-333 Write and answer all questions including the three (3) questions after reading the paragraphs
20. GPS6ES2a Test – Phases of the Moon
21. Handout: **Earth's Satellite**
22. Handout: **Sun-Earth-Moon System**
23. Handout: **Solar and Lunar Eclipses**
24. Reading Assignment with questions to answer GPES2b and GPES2c
25. Solar and Lunar Eclipses: **Casting Shadows** worksheet
26. Online quiz Quia **Phases of the Moon and Eclipses**
27. CRCT Test Prep Booklet **Seasons and Climate** Pages 47-48 **Do not tear out of booklet!**
28. Science Court: **Seasons**
29. Reading: **What causes seasons?**