

Earth, Moon and Sun Research Topics

- a.) Demonstrate and explain seasons using a model. Explain why the Earth is tilted.

- b.) Explain how the revolution of the Earth around the sun defines a year. How long are the other planets' years? Explain how and why they are different.

- c.) Design a model of the solar system that shows the relative order and scale of the planets to the sun.

- d.) Define gravity. Describe the motion of the planets and moons in terms of rotation on axis and orbits due to gravity.

- e.) Explain and demonstrate the phases of the moon. Include other interesting facts about the moon.

- f.) Explain the apparent motion of the stars (constellations) and the sun across the sky. Choose 5 main constellations and demonstrate where to find them in the night sky.

- g.) Explain lunar and solar eclipses with a demonstration. Also explain when the next eclipses will take place and how you know.

- h.) Explain the tides of the oceans as they relate to the gravitational pull and orbit of the moon.

- i.) Explain which planets have moons and rings and why those planets have moons and rings while some others don't. Also explain black holes and worm holes.