**Questions**

Phases of the Moon:

Q: What is are the phases of the Moon caused by?

1. **Sunlight reflecting at different angles on the surface of the Moon as seen from Earth.**
2. The effect of Earth’s shadow covering specific parts of the Moon.
3. The rotation of the Moon about its axis.
4. Due to the Earth’s rotation.

Moon and Tidal Effects:

Q: Why does Ocean water rise up and down periodically on Earth?

1. **Due to the gravitational attraction of the Moon as Earth rotates.**
2. Due to the gravitational attraction of the Sun.
3. Due to the centrifugal force acting outwards as the Earth rotates.
4. Due to earthquakes occurring beneath the ocean floor.

Barycenter

Q: Approximately how far beneath our feet does the barycenter lie?

1. **1700 km**
2. 4671 km
3. 2971 km
4. 6371 km

Solar and Lunar Eclipse

Q: What is the difference between a solar and lunar eclipse?

1. A solar eclipse occurs when the Earth, Moon and Sun are in a straight line whereas this is not necessary for a lunar eclipse.
2. A lunar eclipse occurs when the Moon comes between the Earth and Sun and a solar eclipse occurs when the earth comes between the sun and the moon.
3. **A solar eclipse is when the moon comes between the Earth and the Sun, and a lunar eclipse occurs when the Earth comes between the Moon and the Sun.**
4. A solar eclipse is when the moon turns red due to the red light hitting it from the sun, and a lunar eclipse is when the sun gets completely blocked by the Moon.