



# The Sun-Earth-Moon System



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**Match each of the following terms to its definition:**

Geocentric system

Meteoroid

Law of universal gravitation

Heliocentric system

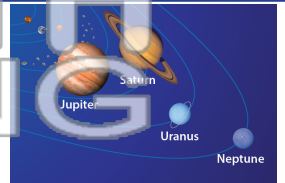
Gas giants

Latitude

Neap tide

Lunar eclipse

1. \_\_\_\_\_ - the four outer planets (Jupiter, Saturn, Uranus and Neptune) that are composed predominantly of hydrogen and helium



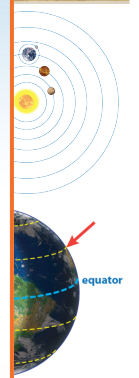
2. \_\_\_\_\_ - the concept that the Earth is the center of the Universe; this ancient concept was proposed by Ptolemy (therefore also called the Ptolemaic system)



3. \_\_\_\_\_ proposed

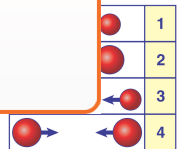


4. \_\_\_\_\_ degrees

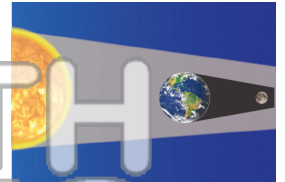


5. \_\_\_\_\_ the gravitational force of the moon on them ( $M_1 \times M_2/d^2 = G$ )

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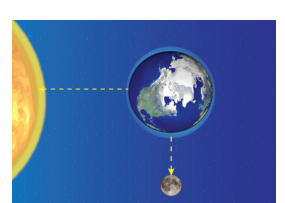
6. \_\_\_\_\_ - the shadow created on the moon when the Earth comes between the Sun and the Moon; occurs when the Moon and Sun are on exactly opposite sides of the Earth and when the moon passes through Earth's shadow



7. \_\_\_\_\_ - a small rocky body that orbits the Sun, originating from an asteroid



8. \_\_\_\_\_ - the high tide created when the Sun and Moon are at 90 degrees to each other relative to the Earth; the lowest high tide





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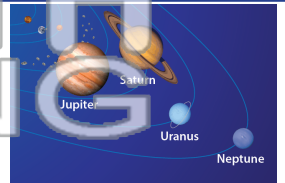
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1. **gas giants** - the four outer planets (Jupiter, Saturn, Uranus and Neptune) that are composed predominantly of hydrogen and helium



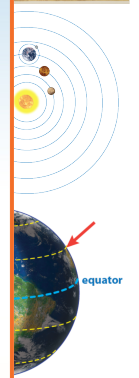
2. **geocentric system** - the concept that the Earth is the center of the Universe; this ancient concept was proposed by Ptolemy (therefore also called the geocentric model)



3. **heliocentric system** - the concept that the Sun is the center of the universe

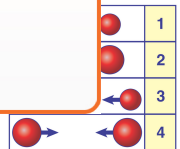


4. **latitude** - the distance north or south of the equator

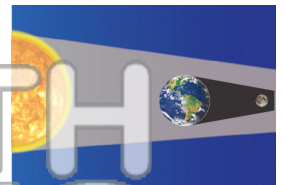


5. **law of universal gravitation** - the force of attraction between two objects is directly proportional to the product of their masses and inversely proportional to the square of the distance between them ( $M_1 \times M_2/d^2 = G$ )

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6. **lunar eclipse** - the shadow created on the moon when the Earth comes between the Sun and the Moon; occurs when the Moon and Sun are on exactly opposite sides of the Earth and when the moon passes through Earth's shadow



7. **meteoroid** - a small rocky body that orbits the Sun, originating from an asteroid



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