

Earth in Space

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- Earth as a Sphere
 - Pythagoras: First to call the Earth Round
 - Plato: The Earth is spherical
 - Aristotle: Gave first arguments
 - Plato argued that because a sphere is a perfect shape, Earth must be spherical but had no explanation.
 - Aristotle
 - Shape of Earth's shadow at lunar eclipse appears circular.
 - Different stars are visible at northern and southern latitudes.
- So how big is the Earth?
 - First person to attempt to measure the Earth
 - Used shadows cast from sun to calculate the Earth's circumference used to ~40,000km, which was a very accurate estimate
 - Measured the tilt of the Earth axis as 23.5 degrees (gives us seasons)
 - Experiment:
 - Eratosthenes knew that at noon on the summer solstice the sun shone directly to the bottom of a well at Syene (now Aswan), Egypt
 - He found that at the same time, in Alexandria, Egypt, approximately 800 km due north of Syene, the angle of inclination of the sun's rays was about 7.2 degrees
 - He estimated the girth of Earth as 250,000 stadia.
 - How long was a stadion (or stade)?
 - Estimated by modern scholars as between 157 and 167 m
 - Earth's circumference between 39,250 km and 41,750 km.
- Distance to Sun and Moon
 - Aristarchus figured out how to measure the relative distances to the sun and the moon
 - His estimate was a bit off but showed that the Sun was 19 times farther away from the moon.
 - He wasn't close, he was quite far - the sun is 400 times farther from us than the moon
 - Size of the moon
 - He measured the angular size of Earth's shadow on the Moon from the positions of the moon before and after a lunar eclipse. He could then compare this angular size to the angular size of the Moon and estimate the size of the moon relative to Earth.
 - Size of the sun
 - He also reasoned that since the Sun and the Moon have the same angular size, but the Sun was estimated to be 19 times farther away, then the Sun must be 19 times bigger than the moon.
 - Proposed the Heliocentric Solar System.
 - His method was correct but he made an error when measuring the angle. He estimated it was 87 degrees which led to his conclusion that the Sun was 19 times larger than the moon. Theta is actually 15 arcminutes or 0.25 degrees.
- Scaling of Sizes
 - If the Sun were to be represented by 100 mm-diameter softball, how big would Earth be?
 - Jupiter: 10 mm
 - Earth: 1 mm
- Geocentric Model
 - According to Plato, Earth was at the center of the universe. The stars and planets were carried around the Earth on spheres of circles, arranged in the order (outwards from the

Plato Answer Key Earth And Space Unit 3

Joacim Rocklöv



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