

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 Earth And Space Answer Key

Richard L. Myers



Plato Earth And Space Answer Key:

Decoding **Plato Earth And Space Answer Key**: Revealing the Captivating Potential of Verbal Expression

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Table of Contents Plato Earth And Space Answer Key

1. Understanding the eBook Plato Earth And Space Answer Key
 - The Rise of Digital Reading Plato Earth And Space Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Plato Earth And Space Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Plato Earth And Space Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Plato Earth And Space Answer Key
 - Personalized Recommendations
 - Plato Earth And Space Answer Key User Reviews and Ratings
 - Plato Earth And Space Answer Key and Bestseller Lists

5. Accessing Plato Earth And Space Answer Key Free and Paid eBooks
 - Plato Earth And Space Answer Key Public Domain eBooks
 - Plato Earth And Space Answer Key eBook Subscription Services
 - Plato Earth And Space Answer Key Budget-Friendly Options
6. Navigating Plato Earth And Space Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Plato Earth And Space Answer Key Compatibility with Devices
 - Plato Earth And Space Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Plato Earth And Space Answer Key
 - Highlighting and Note-Taking Plato Earth And Space Answer Key
 - Interactive Elements Plato Earth And Space Answer Key
8. Staying Engaged with Plato Earth And Space Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Plato Earth And Space Answer Key
9. Balancing eBooks and Physical Books Plato Earth And Space Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Plato Earth And Space Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Plato Earth And Space Answer Key
 - Setting Reading Goals Plato Earth And Space Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Plato Earth And Space Answer Key
 - Fact-Checking eBook Content of Plato Earth And Space Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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