

Astronomy Study Guide

Largest to Smallest – Hierarchy of our universe

The Universe is made of galaxies which are made of many stars, which can have solar systems. Earth is a satellite planet of one particular star - our sun.

Kepler's laws of Planetary Motion

The first law - shape of a planet's orbit is an ellipse with the sun at one focus. The second law - the speed of a planet increases as its distance decreases. The third law - there's a proportional relationship between distance of a planet to the sun and the time to complete a revolution around the sun.

Everything is in Motion!!! Our solar system is moving at 43,000 mph toward the star Vega. Our Galaxy spins like a pinwheel. Our Sun takes 225 million years to revolve around our Galaxy and travels at 483,000 mph. The universe is expanding/stretching and the galaxies are also moving further apart.

Types of Motions

- **Revolution** - Earth moves around the Sun (1 time per year/365 days)
- **Rotation** - turning on our axis, creates day/night (24 hours)
- **Precession** - change in direction of the axis, without changing the tilt, it alters the stars our poles face, but does not affect the seasons.
- **Nutation** - wobbling along the precessional axis over an 18 year period (change the angle of our tilt 1/2 degree up or down). It occurs because of gravitational pull of the Moon on us, it causes slight seasonal effects

Random MSU "Space" Facts

- Our seasons are caused by the tilt (23.5 degrees) of the Earth on its axis.
- The gravitational interaction between the Earth and moon causes the tides.
- **Barycenter** - point between two objects where their masses are balanced. When a planet orbits a star, both objects are orbiting around a point that lies outside the center of the larger body.
- **What is the shape of the Earth and why?** Basic shape = sphere, with a slight bulging at the equator as a result of the spinning of the earth.

Energy Production by Our Big Star - the Sun

- **Radiation** is the transfer of energy (heat) through space by electromagnetic waves that travel out in all directions.
- The sun emits **light, heat, and ultraviolet (UV) rays which are part of the electromagnetic spectrum.**
- **Fusion** - the high speed collision of two or more atomic nuclei, *joining* them together to form a new type of atomic nucleus, this process powers stars. The energy our Sun emits into space is produced by these nuclear reactions in its core where four hydrogen nuclei are smashed into a helium releasing energy.
- **Fission** - the nucleus of an atom *splits* into smaller parts, producing gamma rays and releasing energy.
- Fusion and Fission produce much more heat energy than chemical reactions like **Combustion**, which is a rapid chemical process that produces heat and usually light.

What is Sunlight?

It is a mixture of **electromagnetic (EM) waves** ranging from infrared (IR) to ultraviolet rays (UV). It includes visible light, which is in between IR and UV in the electromagnetic spectrum. Energy leaves the sun as gamma rays (or super-energized **photons**) produced in fusion and it makes its way toward Earth. They are absorbed and re-emitted at lower frequencies as they travel. When electromagnetic radiation strikes the Earth's atmosphere, part of it passes through, and some is absorbed. **Greenhouse gases** make the atmosphere absorb more heat, reducing the amount of outbound EM waves that pass through. Known as the greenhouse effect, this is the reason why heat can

Astronomy 2 Unit Study Guide Troup County School District

Karin Nielsen-Saines



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Table of Contents Astronomy 2 Unit Study Guide Troup County School District

1. Understanding the eBook Astronomy 2 Unit Study Guide Troup County School District
 - The Rise of Digital Reading Astronomy 2 Unit Study Guide Troup County School District
 - Advantages of eBooks Over Traditional Books
2. Identifying Astronomy 2 Unit Study Guide Troup County School District
 - 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 Astronomy 2 Unit Study Guide Troup County School District
 - User-Friendly Interface
4. Exploring eBook Recommendations from Astronomy 2 Unit Study Guide Troup County School District

- Personalized Recommendations
 - Astronomy 2 Unit Study Guide Troup County School District User Reviews and Ratings
 - Astronomy 2 Unit Study Guide Troup County School District and Bestseller Lists
5. Accessing Astronomy 2 Unit Study Guide Troup County School District Free and Paid eBooks
 - Astronomy 2 Unit Study Guide Troup County School District Public Domain eBooks
 - Astronomy 2 Unit Study Guide Troup County School District eBook Subscription Services
 - Astronomy 2 Unit Study Guide Troup County School District Budget-Friendly Options
 6. Navigating Astronomy 2 Unit Study Guide Troup County School District eBook Formats
 - ePub, PDF, MOBI, and More
 - Astronomy 2 Unit Study Guide Troup County School District Compatibility with Devices
 - Astronomy 2 Unit Study Guide Troup County School District Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Astronomy 2 Unit Study Guide Troup County School District
 - Highlighting and Note-Taking Astronomy 2 Unit Study Guide Troup County School District
 - Interactive Elements Astronomy 2 Unit Study Guide Troup County School District
 8. Staying Engaged with Astronomy 2 Unit Study Guide Troup County School District
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Astronomy 2 Unit Study Guide Troup County School District
 9. Balancing eBooks and Physical Books Astronomy 2 Unit Study Guide Troup County School District
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Astronomy 2 Unit Study Guide Troup County School District
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Astronomy 2 Unit Study Guide Troup County School District
 - Setting Reading Goals Astronomy 2 Unit Study Guide Troup County School District
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Astronomy 2 Unit Study Guide Troup County School District

- Fact-Checking eBook Content of Astronomy 2 Unit Study Guide Troup County School District
 - 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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