

**Lesson Plan in Grade 12- Physical Science**  
**Topic: Ancient Greek Models of the Universe**  
 Date: \_\_\_\_\_

**Content Standards**

1. Plato's problem of "saving the appearances"; Allegory of the Cave and the Analogy of the Divided Line
2. Progression of the ancient Greek models of the Universe from Plato to Ptolemy (including, but not limited to that of Plato, Eudoxus, Aristotle, and
3. Discussion of the recorded proposal of Aristarchus and the measurement of the earth's circumference by Eratosthenes

**Learning Competencies**

1. Explain (K) how Plato's problem of "saving the appearances" and the two-domain system constrained the Greek models of the Universe. [IVa-39]
2. Historical models of the Universe from the time of Plato to the time of Ptolemy; contributions from Plato, Eudoxus, Aristotle, Aristarchus, Hipparchus and Ptolemy [IVa-40]

**Specific Learning Outcomes**

The learners should be able to

1. Discuss significance of Plato's problem of "saving the appearances" to the scientific mindset of the philosophers.
2. Tabulate philosopher name and the proposed model of the Universe and place them in a time line. Connect the ancient models of the Universe to their proponents and according to the philosophical biases and the motion of the sky observed.
3. Specify the additional feature of the new models required to match the new observations of the annual motion of the sky.

**Lesson Outline**

Content	Description	No. of Minutes
I. Introduction/Review	Ancient Greeks; Two-domain view of the Universe and perfect modes of motion; and the Ancient Greek models of the Universe	5
II. Motivation	Guessing Game	5
III. Instruction / Delivery	Discussion of the different models of the Universe from Plato to Ptolemy	25
IV. Practice	Construction of time line of philosophers	10
V. Enrichment	Discuss advantages of a model against the previous	10
VI. Evaluation	Quiz on sketching the models	5
VII. Materials	<ul style="list-style-type: none"> <li>• Diagram of the Greek models of the Universe: Plato, Eudoxus, Aristotle and Ptolemy</li> <li>• Videos of (or sequential pictures showing) retrograde motion of planets</li> </ul>	

# Physical Science Cap Lesson Plan Grade 12

**Rosina Ehmman**



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## **Table of Contents Physical Science Cap Lesson Plan Grade 12**

1. Understanding the eBook Physical Science Cap Lesson Plan Grade 12
  - The Rise of Digital Reading Physical Science Cap Lesson Plan Grade 12
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Cap Lesson Plan Grade 12
  - 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 Physical Science Cap Lesson Plan Grade 12
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Cap Lesson Plan Grade 12
  - Personalized Recommendations
  - Physical Science Cap Lesson Plan Grade 12 User Reviews and Ratings
  - Physical Science Cap Lesson Plan Grade 12 and Bestseller Lists
5. Accessing Physical Science Cap Lesson Plan Grade 12 Free and Paid eBooks
  - Physical Science Cap Lesson Plan Grade 12 Public Domain eBooks
  - Physical Science Cap Lesson Plan Grade 12 eBook Subscription Services
  - Physical Science Cap Lesson Plan Grade 12 Budget-Friendly Options

6. Navigating Physical Science Cap Lesson Plan Grade 12 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Cap Lesson Plan Grade 12 Compatibility with Devices
  - Physical Science Cap Lesson Plan Grade 12 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Cap Lesson Plan Grade 12
  - Highlighting and Note-Taking Physical Science Cap Lesson Plan Grade 12
  - Interactive Elements Physical Science Cap Lesson Plan Grade 12
8. Staying Engaged with Physical Science Cap Lesson Plan Grade 12
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Cap Lesson Plan Grade 12
9. Balancing eBooks and Physical Books Physical Science Cap Lesson Plan Grade 12
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Cap Lesson Plan Grade 12
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Cap Lesson Plan Grade 12
  - Setting Reading Goals Physical Science Cap Lesson Plan Grade 12
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Cap Lesson Plan Grade 12
  - Fact-Checking eBook Content of Physical Science Cap Lesson Plan Grade 12
  - 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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