

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"> • Diagram of the Greek models of the Universe: Plato, Eudoxus, Aristotle and Ptolemy • Videos of (or sequential pictures showing) retrograde motion of planets 	

Physical Science Cap Lesson Plan Grade 12

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Physical Science Cap Lesson Plan Grade 12:

Physical Science Cap Lesson Plan Grade 12: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have captivated audiences this year. Physical Science Cap Lesson Plan Grade 12 : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Physical Science Cap Lesson Plan Grade 12 : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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