

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

Rosina Ehmann



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