

**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

**ML Morrison**



## Physical Science Cap Lesson Plan Grade 12:

**Study and Master Agricultural Sciences Grade 12 CAPS Teacher's File** Altus Strydom, Henricho Ferreira, Peter J. Holmes, 2014-06-26 Study Master Agricultural Sciences Grade 12 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement CAPS This new and easy to use course helps learners to master essential content and skills in Agricultural Sciences Physical Science Mr. Rohit Manglik, 2024-07-15 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *Resources in Education*, 1998

**THE Journal**, 1995 Mathematics, Science, and Technology Education Programs that Work, 1994 *Course and Curriculum Improvement Projects: Mathematics, Science, Social Sciences* National Science Foundation (U.S.), 1966

**Science Education in Countries Along the Belt & Road** Ronghuai Huang, Bing Xin, Ahmed Tlili, Feng Yang, Xiangling Zhang, Lixin Zhu, Mohamed Jemni, 2022-01-18 This book aims to highlight science education in countries along the Belt and Road It consists of 30 chapters divided into three main parts namely Arab and African countries Asian countries and European countries We invited science education experts from 29 Belt and Road countries to introduce the current status of science education in their countries and the new requirements with the rapid evolution of Information Technology The major contributions of this book include 1 Provide the current status of science education in countries along the Belt and Road as well as the requirement for developing and improving science education in these countries 2 Discuss new insights of science education in future years 3 Inspire stakeholders to take effective initiatives to develop science education in countries along the Belt and Road Promising Practices in Mathematics and Science Education DIANE Publishing Company, 1994-12 Includes 66 promising practices in math and science education developed by the 10 regional educational laboratories funded by the U S Dept of Education *Research in Education*, 1968-07 *Symposium Proceedings Innovative Teaching Practices* Janina Morska, Alan Rogerson, 2023-06-14 This volume contains the papers presented at the International Symposium Innovative Teaching Practices held on August 14 18 2023 in The Queen s College Oxford University The Symposium was organized by The Mathematics Education for the Future Project an international philanthropic project founded in 1986 and dedicated to innovation in mathematics science computer and statistics education **Proceedings of the High School Conference of ...**, 1923 **Teaching in the Standards-based Classroom**, 2001 Virtually every national standards document every state framework and every local set of standards calls for fundamental changes in what and how teachers teach The challenge for teachers is to implement the vision for mathematics and science classrooms called for in the standards This issue describes that vision and suggests ways to use the standards mandated in your school to improve your practice to help you teach in your standards based classroom Professional Aspects of Aviation Education United States.

Civil Aeronautics Administration,1950     *Science Education* ,1940     *Physics in Canada* ,1971     **Friends' Intelligencer**  
,1911     **Annual Report** Mpumalanga (South Africa). Department of Education,2017     **American Journal of Physics**  
,1985 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and  
cultural aspects of physics     **Private Independent Schools** ,1984     *The Nebraska Educational Journal* ,1925

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