

Module 1 (Introduction to Physical Science) Note-Taking Guide

□ Watch [Strategies for Success: Get Information into Your Brain](#) to learn about best strategies for success in the course.

□ Using what you learn in the readings, **Learn by Doing** and **Did I Get This Activities**, take notes on key concepts by answering the following prompts in your own words.

□ Click [here](#) for ideas on effective note taking techniques.

✧ Click [here](#) to access an optional note-organizing tool.

1. Distinguish among the fields of physics, chemistry, and Earth science.

- Describe common types of questions and investigations in physics, chemistry, and Earth science.
- Describe how knowledge in each field might be useful in the other fields.

2. Describe the main methods of science.

- Distinguish between controlled experiments, observational experiments, field studies, and laboratory studies. Include an example of each.
 - **Essential Vocabulary** (*Note: Define all Essential Vocabulary in your own words, including examples to illustrate the concepts*).
 - Independent variable
 - Dependent variable
 - Control variable
- Describe how different models (physical, conceptual, mathematical, computational) can be used in scientific investigations. Include examples.

3. Distinguish among scientific hypotheses, theories, and laws.

- **Essential Vocabulary**
 - Hypothesis
 - Theory
 - Law
- Describe the principle of falsifiability.
- Give examples of scientific hypotheses, theories and Laws that are covered in the course.

□ Watch [Hypothesis, Theory, and Law](#) video on page 25.

4. Discuss how scientific ideas change over time.

- Using a specific example, explain how scientific ideas change over time.

□ At the bottom of page 25, complete the [Personal Practice Quiz and Module 1 Quiz](#) without using your notes.

□ Explore the example below to learn how to create maps from your notes.

Physical Science Notetaking Guide Answer Sheet

RM Cervero



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Resources in Education, 1993 *Focus on Physical Science California Edition* Michael J. Padilla, 2007 **MCAT Preparation Guide** Miriam S. Willey, Barbara M. Jarecky, 2015-01-13 Competition for admission to American medical schools has always been intense Now with more than 40 000 pre med students applying for the few available slots each year scoring well on the Medical College Admission Test MCAT is more critical than ever The MCAT Preparation Guide offers students a systematic sensible way to improve MCAT test scores It recognizes their need to understand not only the subject areas covered but also the way the MCAT is structured and what test scorers look for Extensively field tested at the University of Chicago Tulane University Howard University and the University of Kentucky this Guide has already helped hundreds of students to boost their MCAT scores significantly With this edition the Guide becomes available nationwide for the first time One excellent feature is the chapter on preparing writing samples a section of the MCAT often omitted or slighted in other guides Here is a step by step process for attacking writing sample prompts to produce superior essays **UGC NET History Paper II Chapter Wise Notebook | Complete Preparation Guide** EduGorilla Prep Experts, 2022-09-01 Best Selling Book in English Edition for UGC NET History Paper II Exam with objective type questions as per the latest syllabus given by the NTA Increase your chances of selection by 16X UGC NET History Paper II Kit comes with well structured Content Chapter wise Practice Tests for your self evaluation Clear exam with good grades using thoroughly Researched Content by experts *Resources for Teaching Middle School Science* Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science

Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

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