

## **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 Note Taking Guide Answers

**David Baud**



## Physical Science Note Taking Guide Answers:

**Focus on Physical Science California Edition** Michael J. Padilla, 2007      **Resources in Education**, 2001-04      **In Quest of the Universe** Theo Koupelis, 2010-02-02 Available with WebAssign Designed for the nonscience major In Quest of the Universe Sixth Edition is a comprehensive student friendly introduction to astronomy This accessible text guides readers through the development of historical and current astronomical theories to provide a clear account of how science works Koupelis distinct explanations acquaint students with their own solar system before moving on to the stars and distant galaxies With numerous interactive learning tools the Starry Night planetary software package and stunning visuals and up to date content In Quest of the Universe Sixth Edition is an exciting overview of this ever changing discipline      **In Quest of the Solar System** Theo Koupelis, 2010-01-26 Available with WebAssign Author Theo Koupelis has set the mark for a student friendly accessible introductory astronomy text with In Quest of the Universe He has now developed a new text to accommodate those course that focus mainly on planets and the solar system Ideal for the one term course In Quest of the Solar System opens with material essential to the introductory course gravity light telescopes the sun and then moves on to focus on key material related to our solar system Incorporating the rich pedagogy and vibrant art program that have made his earlier books a success Koupelis In Quest of the Solar System is the clear choice for students making their way through their first astronomy course      **Modules**, 2005      *In Quest of the Stars and Galaxies* Theo Koupelis, 2010-02-04 Available with WebAssign Author Theo Koupelis has set the mark for a student friendly accessible introductory astronomy text with In Quest of the Universe He has now developed a new text to accommodate those course that focus mainly on stars and galaxies Ideal for the one term course In Quest of the Stars and Galaxies opens with material essential to the introductory course gravity light telescopes the sun and then moves on to focus on key material related to stars and galaxies Incorporating the rich pedagogy and vibrant art program that have made his earlier books a success Koupelis In Quest of the Stars and Galaxies is the clear choice for students first exploration of the cosmos      **The Novice Advantage** Jonathan Eckert, 2016-04-19 Inspiring to teachers of all experience levels this guide uses humor and insight to show how to teach with daring while growing through risk reflection and revision      **The Best Books** William Swan Sonnenschein, 1895

**Research in Education**, 1974      **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1961 Includes Part 1 Number 1 2 Books and Pamphlets Including Serials and Contributions to Periodicals January December      **Targeting Writing Across the Curriculum** Merryn Whitfield, 2001 Targeting across the curriculum book 3 upper primary      **How to Reach and Teach All Children Through Balanced Literacy** Sandra F. Rief, Julie A. Heimburge, 2007-08-17 How to Reach and Teach All Children Through Balanced Literacy offers you a handbook for teaching literacy to diverse students in grades 3 8 The balanced literacy method combines the best practices of phonics and other skill based language instruction with the holistic literature based approach in order to help you teach reading writing and

speaking in a clear and approachable format This dynamic resource offers an easily accessible research based approach to balanced literacy that is grounded in the innovative ideas developed by authors Sandra F Rief and Julie A Heimburge The book includes detailed descriptions of what a balanced literacy classroom looks like and shows how to create a program from the ground up or give your existing program a boost The book can be used across content areas and is filled with reproducible worksheets activities and other handy classroom tools Some topics covered include Shared book experiences Reading aloud Oral language and vocabulary development Guided reading for comprehension Modeled writing Reading and writing conferences Book clubs Content area reading and writing Ongoing assessments Enhancing literacy through technology

**The School Science Review** ,2004      **Economics: Today and Tomorrow, Reading Essentials and Note-Taking Guide** McGraw Hill,2007-04-11 Reading Essentials and Study Guide English and Spanish Reinforce critical concepts from the text and help students improve their reading for information skills with this essential resource written 2 3 grade levels below the Student Edition      *Educational Times* ,1880      **Using Formative Assessment to Enhance Learning, Achievement, and Academic Self-Regulation** Heidi L. Andrade,Margaret Heritage,2017-07-20 There is convincing evidence that carefully applied classroom assessments can promote student learning and academic self regulation These assessments include but are not limited to conversations with students diagnostic test items and co created rubrics used to guide feedback for students themselves and their peers Writing with the practical constraints of teaching in mind Andrade and Heritage present a concise resource to help pre and in service teachers maximize the positive impacts of classroom assessment on teaching Using Formative Assessment to Enhance Learning Achievement and Academic Self Regulation translates work from leading specialists and explains how to use assessment to improve learning by linking learning theory to formative assessment processes Sections on goal setting progress monitoring interpreting feedback and revision of goal setting make this a timely addition to assessment courses      [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

**U. S. News and World Report Ultimate College Guide** U.S. News & World Report (Firm),2007-10 In the simplest of terms leadership is about influencing people to achieve an objective that is important to the leader the group and the organization It is the human element leading motivating and inspiring particularly during times of crisis chaos and complexity when directives policy statements and communiques have little effect on cold exhausted and stressed followers Strong leadership encourages subordinates to go beyond the obligation to obey and commit to the mission in a way that maximizes their potential The Military Leadership Handbook is a concise and complete manual that identifies describes and explains all those concepts components and ideas that deal with or directly relate to military leadership The book is a comprehensive compendium that focuses on among other subjects cohesion command cultural intelligence discipline fear and trust this applied manual provides invaluable assistance to anyone who wishes to acquire a better understanding of both the theory and application of military leadership **Science Indiana Standards Manager Grade 6** McDougal Littell,2004 [Catalog of ERIC Clearinghouse Publications](#) ,19??

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