



# U.S. INTERNATIONAL CHRISTIAN ACADEMY

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## LESSON PLAN

**Grade/Course: PHYSICAL SCIENCE 2003310**

**Grade Level: 9<sup>th</sup> High School**

**A)TEXT BOOK: PHYSICAL SCIENCE: CONCEPTS IN ACTION, WITH EARTH AND SPACE SCIENCE STUDENT EDITION 2004 [Hardcover]**

**PRENTICE HALL (Author)**

**ISBN-10: 0131663089 | ISBN-13: 978-0131663084**

**Order No.: 1**

**Code:PHS2003310**

**Class Type:Online**

**Resources:**

Text book  
Teacher works CD  
Teacher interactive online  
Links  
Sky Conference

**Instructional Supports:**

Textbook, Magazines, Journals, Websites  
Links, Conference, Comprehensive Reading Plan

**Length: 1 year**

**Area:Science**

**Credits: 1**

**Total Numbers of class hours: 300 hrs**

**Type: Mandatory**

**Standards:**

Florida Sunshine State Standards

**Prerequisite:**

Students must have successfully passed a Science class in middle/high school.

## **B) LESSON PLAN**

### **Description:**

This one-year course of Physical Science provides students with the essential skills experiences necessary to be successful in science. It is an introductory course designed for students to explore science in a setting. Topics covered: scientific method, laboratory methods, measurement, graphing, data types and interpretation, error analysis, presentation of scientific information, writing scientific research papers.

## **C) LESSONPLAN**

### **Objectives:**

1. To develop in all students an appreciation and understanding for Physical Science
2. to develop in all students thinking skills in Science
3. to promote the study of Physical Science

## **D) LESSON PLAN Contents & Schedule of Class;**

Chapter 1 Science Skills (Week: 1 & 2))  
Chapter 2: Properties of Matter (Week: 3 & 4)  
Chapter 3: States of Matter (Week: 5 & 6)  
Chapter 4: Atomic Structure (Week: 7 & 8)  
Chapter 5: The Periodic Table (Week 9 & 10)  
Chapter 6: Chemical Bonds (Week: 11 & 12)  
Chapter 7: Chemical Reactions (Week: 13 & 14)  
Chapter 8: Solutions, Acids, Bases (Week: 15 & 16)  
Chapter 9: Carbon Chemistry (Week: 17 & 18)  
Chapter 10: Nuclear Chemistry (Week 19 & 20)  
Chapter 11: Motion (Week: 21 & 22)  
Chapter 12: Forces and Motion (Week 23 & 24)  
Chapter 13: Forces in Fluids ( Week: 25-& 26)  
Chapter 14: Work, Power Machines Week: 27-28)  
Chapter 15: Energy (Week: 29-30)  
Chapter 16: Thermal Energy/Heat (Week: 31-32)  
Chapter 17: Mechanical Waves (Week 33-34)  
Chapter 18: Electromagnetic Spectrum( Week:35/36)  
Chapter 19: Optics ( Week: 37-38)  
Chapter 20: Electricity (Week 39-40)  
Chapter 21: Magnetism ( Last Week 40)

**Quiz, and Final Exams: TBA**

## **F. LESSON PLAN**

### **Reference, Websites, Journals & Books, Etc;**

#### **1.PRENTICE HALL HIGH SCHOOL PHYSICAL SCIENCE CONCEPTS IN ACTION READING AND STUDY**

**WORKBOOK 2006C** Paperback– September 15,  
2004 by PRENTICE HALL(Author)

#### **2.Glencoe Physical Science, Laboratory Activities**

**Manual**, Student Edition (Glencoe Science)  
[Paperback] Glencoe McGraw-Hill (Author)

#### **3.Glencoe Physical Science, Reinforcement and Study Guide**, Student Edition [Paperback]

Glencoe McGraw-Hill (Author)

## **H) Web Reference:**

[www.flinnsci.com/.../physical-science-links](http://www.flinnsci.com/.../physical-science-links)

[www.homelink.cps-k12.org/teachers/wrighka/hyperlinks2.html](http://www.homelink.cps-k12.org/teachers/wrighka/hyperlinks2.html)

[www.myteacherpages.com/webpages/SMorrell/physical.cfm](http://www.myteacherpages.com/webpages/SMorrell/physical.cfm)

[www.linktoscience.schoolspecialty.com](http://www.linktoscience.schoolspecialty.com)

[www.wikipedia.com/physicscience](http://www.wikipedia.com/physicscience)

[www.sciencenetlinks.com](http://www.sciencenetlinks.com)

[www.flinnsci.com/.../physical-science-links](http://www.flinnsci.com/.../physical-science-links)

[www.homelink.cps-k12.org/teachers/wrighka/hyperlinks2.html](http://www.homelink.cps-k12.org/teachers/wrighka/hyperlinks2.html)

[www.myteacherpages.com/webpages/SMorrell/physical.cfm](http://www.myteacherpages.com/webpages/SMorrell/physical.cfm)

[www.linktoscience.schoolspecialty.com](http://www.linktoscience.schoolspecialty.com)

[www.sciencenetlinks.com](http://www.sciencenetlinks.com)

<http://www.physicsclassroom.com>

<http://www.everydaylearning.com/bcsblue>

<http://www.chemicalelements.com>

## **I. Journals:**

Journal in Physical Science

Science Daily

American Scientist

Scientific American

### **J. Magazines:**

Smithsonian magazine, published by the Smithsonian Museum  
American Scientist magazine  
Discover magazine

### **K. Comprehensive Reading Plan:**

Students are required to read at least 1 book or their equivalent during each class as independent reading at-home. Students must also read for 30 minutes at home as part of their daily homework assignment in all subjects. Check your Class Reading Assignment at [www.USICAhs.org/CURRICULUM](http://www.USICAhs.org/CURRICULUM) and check free ebooks at [www.openlibrary.org](http://www.openlibrary.org).

### **L. MATERIAL: Text Book Description;**

Publication Date: December 15, 2004 | ISBN-10: 0131663089 | ISBN-13: 978-0131663084  
Prentice Hall Physical Science: Concepts in Action helps students make the important connection between the science they read and the science they experience every day. Relevant content, lively explorations, and a wealth of hands-on activities help students understand that science exists well beyond the page and into the world around them.

### **BOOK:**



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