



# U.S. INTERNATIONAL CHRISTIAN ACADEMY

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## U.S.I.C.A.Course Outline/Syllabus

**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:**PHS2000

**Class Type:**Online

**Resources:**

Text book  
Teacher works CD  
Teacher interactive online  
Links  
Sky Conference

**Length:** 1 year

**Instructional Supports:**

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

**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) 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) 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) Contents**

Chapter 1 Science Skills

Chapter 2: Properties of Matter

Chapter 3: States of Matter

Chapter 4: Atomic Structure

Chapter 5: The Periodic Table

Chapter 6: Chemical Bonds

Chapter 7: Chemical Reactions

Chapter 8: Solutions, Acids, and Bases

Chapter 9: Carbon Chemistry

Chapter 10: Nuclear Chemistry

Chapter 11: Motion

Chapter 12: Forces and Motion

Chapter 13: Forces in Fluids

Chapter 14: Work, Power, and Machines

Chapter 15: Energy

Chapter 16: Thermal Energy and Heat

Chapter 17: Mechanical Waves and Sound

Chapter 18: The Electromagnetic Spectrum Light

Chapter 19: Optics

Chapter 20: Electricity

Chapter 21: Magnetism

**E. Methodology**

<b>E)Academic Methodology:</b>	
Tests	30%
Writing Reports	20%
Homework	5%
Class Work	20%
Reading Assignment	25%

## **F) Book Reference:**

- 1.HSPS09 READING AND STUDY WORKBOOK LEVEL A SE [Paperback] PRENTICE HALL (Author)
- 2.Physical Science (Steck-Vaughn High School Science) Paperback– September 1, 2005
- 3.Physical Science / 2 Vol (P) (TE) Spiral-bound by R. Terrance Egolf and Rachel Santopietro (Author)by STECK-VAUGHN(Author)
- 4.PRENTICE HALL HIGH SCHOOL PHYSICAL SCIENCE CONCEPTS IN ACTION READING AND STUDY WORKBOOK 2006C Paperback– September 15, 2004 by PRENTICE HALL(Author)
- 5.Glencoe Physical Science, Laboratory Activities Manual, Student Edition (Glencoe Science) [Paperback] Glencoe McGraw-Hill (Author)
- 6.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. Organizations**

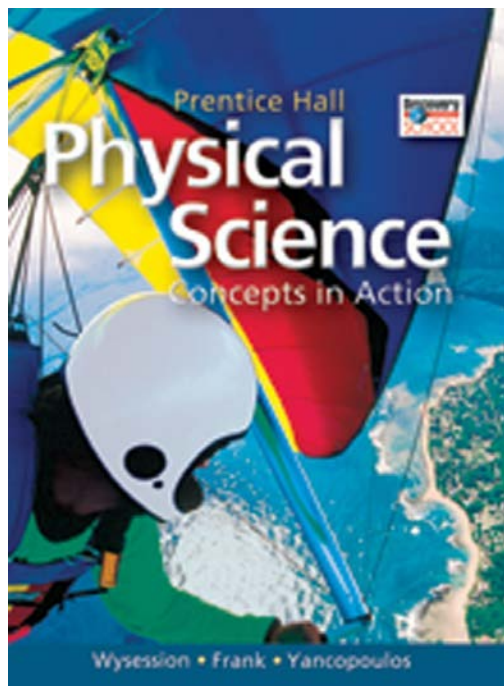
National Science Foundation  
National Teachers Science Associations

### **M. 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) .

## **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.



## **ACADEMIC MISCONDUCT:**

Academic misconduct includes cheating (using unauthorized materials, information, or study aids in any academic exercise), plagiarism, falsification of records, unauthorized possession of examinations, intimidation, and any and all other actions that may improperly affect the evaluation of a student's academic performance or achievement, or assisting others in any such act or attempts to engage in such acts. Academic misconduct in any form is inimical to the purposes and functions of the school and therefore is unacceptable and prohibited.

Any faculty member, administrator or staff member may identify an act of academic misconduct and should report that act to the department head or administrative supervisor.

Students violating the standards of academic honesty are subject to disciplinary action including reduction of a grade(s) in a specific course, assignment, paper, or project; a formal or informal reprimand at the professorial, dean, or academic vice president level; expulsion from the class in which the violation occurred; expulsion from a program; or expulsion from the school.