

Warren County School District

PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Science 8

Course Number: 00307

Course Prerequisites: none

Course Description:

Eighth grade science covers physical science, chemistry and physics in the areas of matter, energy sources, force and motion. Unifying themes, inquiry and design, and technological devices are incorporated within those areas of study.

Suggested Grade Level: Eighth Grade

Length of Course: ☐ One Semester ☒ Two Semesters ☐ Other (Describe)

Units of Credit: 1 (Insert *None* if appropriate)

PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:

CSPG Biology, Chemistry, Physics, Environmental, Earth and Space, General Science, Middle Level Science

Certification verified by WCSD Human Resources Department: ☒ Yes ☐ No

TEXTBOOK AND SUPPLEMENTAL MATERIALS

Continue using Board approved textbook? ☒ Yes ☐ No (*If yes, then complete the information below.*)

Board Approved Textbooks, Software, Supplemental Materials:

Title: Physical iScience

Publisher: McGraw Hill

ISBN #: 978-0-07-677305-3

Copyright Date: 2017

Date of WCSD Board Approval:

BOARD APPROVAL:

Date Written: 2/20/18

Date Approved: _____

Implementation Date: 2018-2019

SPECIAL EDUCATION AND GIFTED REQUIREMENTS

The teacher shall make appropriate modification to instruction and assessment based on a student's Individual Education Plan (IEP) or Gifted Individual Education Plan (GIEP).

COURSE OVERVIEW

(List the content to be taught)

- I. Nature of Science
 - a. Scientific Inquiry
 - b. Scientific Theories and Laws
 - c. Measurement and Scientific Tools
 - d. Data Analysis
- II. Motion and Forces
 - a. Describing Motion
 - b. The Laws of Motion
 - c. Forces and Fluids
- III. Energy and Matter
 - a. Foundations of Chemistry
 - b. States of Matter
- IV. Properties of Matter
 - a. Understanding the Atom
 - b. The Periodic Table
 - c. Elements and Chemical Bonds
- V. Interactions of Matter
 - a. Chemical Reactions and Equations
 - b. Mixtures, Solubility, and Acid/Base Solutions

ANCHORS AND STANDARDS

3.2.A: Chemistry

3.2.B: Physics

CC.3.5.6-8: Reading Informational Text

CC.3.6.6-8: Writing

ASSESSMENT

Portfolio Assessment: _____ Yes X No

District-Wide Common Final Examination Required: _____ Yes X No

Course Challenge Assessment (Describe): none

WRITING TEAM: Warren County School District Teachers

WCSD STUDENT DATA SYSTEM INFORMATION

1. Is there a required final examination? _____ Yes X No

**Warren County School District Policy 9741 and 9744 state, "All classes in grades 9-12 shall have a final exam."*

2. Does this course issue a mark/grade for the report card? X Yes _____ No

3. Does this course issue a Pass/Fail mark? _____ Yes X No

4. Is the course mark/grade part of the GPA calculation? _____ Yes X No

5. Is the course eligible for Honor Roll calculation? X Yes _____ No

6. What is the academic weight of the course?

_____ No weight/Non credit

 X Standard weight

_____ Enhanced weight