

## WARREN COUNTY SCHOOL DISTRICT

### PLANNED INSTRUCTION

#### **COURSE DESCRIPTION**

**Course Title:** Science 1

**Course Number:** 08133

**Course Prerequisites:** None

**Course Description:** Students will develop an understanding of the relationship between sound and vibrating materials. Students will develop an understanding that light travels from place to place and that the availability of light affects the ability to see objects. Students will learn how plants and animals use their external parts to help them survive, grow, and meet their needs as well as how behaviors of parents and offspring help the offspring survive. Students will observe, describe, and predict some patterns of movement of objects in the sky.

**Suggested Grade Level:** Grade 1

**Length of Course:** Two Semesters

**Units of Credit:** None

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

CSPG 69 or Elementary K-6

To find the CSPG information, go to [CSPG](#)

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

#### **WCSD STUDENT DATA SYSTEM INFORMATION**

**Course Level:** Academic

**Mark Types:** Check all that apply.

☒ F – Final Average ☒ MP – Marking Period ☐ EXM – Final Exam

**GPA Type:** ☒ GPAEL-GPA Elementary ☐ GPAML-GPA for Middle Level ☐ NHS-National Honor Society  
☐ UGPA-Non-Weighted Grade Point Average ☐ GPA-Weighted Grade Point Average

**State Course Code:** 03231

To find the State Course Code, go to [State Course Code](#), download the Excel file for SCED, click on SCED 6.0 tab, and choose the correct code that corresponds with the course.

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#### **TEXTBOOKS AND SUPPLEMENTAL MATERIALS**

##### **Board Approved Textbooks, Software, and Materials:**

**Title:** Inspire Science  
**Publisher:** McGraw Hill  
**ISBN #:** 978-0-07-678001-3  
**Copyright Date:** 2017  
**WCSD Board Approval Date:** 12/3/2018

**Supplemental Materials:** STEM Lab Activities and science kits

#### **Curriculum Document**

##### **WCSD Board Approval:**

**Date Finalized:** 6/9/2023  
**Date Approved:** Click or tap to enter a date.  
**Implementation Year:** 2023-2024

#### **SPECIAL EDUCATION, 504, and GIFTED REQUIREMENTS**

The teacher shall make appropriate modifications to instruction and assessment based on a student's Individual Education Plan (IEP), Chapter 15 Section 504 Plan (504), and/or Gifted Individual Education Plan (GIEP).

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**SCOPE AND SEQUENCE OF CONTENT AND CONCEPTS**

**Marking Period 1**

- Physical Science: Waves and their Applications

**Marking Period 2**

- Earth and Space Sciences: Earth's Place in the Universe

**Marking Period 3**

- Life Science: From Molecules to Organisms
- Life Science: Heredity

**Marking Period 4**

- Life Science: Heredity

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**Standards/Eligible Content and Skills**

<b>Performance Indicator</b>	<b>PA Core Standard and/or Eligible Content</b>	<b>Marking Period Taught</b>
Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.	3.2.1.A	MP1
Make observations to construct an evidence-based account that objects can be seen only when illuminated.	3.2.1.B	MP1
Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light.	3.2.1.C	MP1
Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.	3.2.1.D	MP1
Demonstrate essential skills of the engineering design process.	3.5.K-2.M	MP1
Apply skills necessary for making in design.	3.5.K-2.Q	MP1,MP2
Use observations of the sun, moon, and stars to describe patterns that can be predicted.	3.3.1.A	MP2
Make observations at different times of year to relate the amount of daylight to the time of year.	3.3.1.B	MP2
Discuss that all designs have different characteristics that can be described.	3.5.K-2.P	MP2
Apply design concepts, principles, and processes through play and exploration.	3.5.K-2.S	MP2
Demonstrate that designs have requirements.	3.5.K-2.T	MP2, MP3
Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.	3.1.1.A	MP3
Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.	3.1.1.B	MP4
Make observations to construct an evidenced-based account that young plants and animals are like, but not exactly like, their parents.	3.1.1.C	MP4

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#### **ASSESSMENTS**

**PDE Academic Standards, Assessment Anchors, and Eligible Content:** The teacher must be knowledgeable of the PDE Academic Standards, Assessment Anchors, and Eligible Content and incorporate them regularly into planned instruction.

**Formative Assessments:** The teacher will utilize a variety of assessment methods to conduct in-process evaluations of student learning.

**Effective formative assessments for this course include:** center activities, cooperative learning, activities, games, online activities, oral responses, teacher observations, writing, and worksheets.

**Summative Assessments:** The teacher will utilize a variety of assessment methods to evaluate student learning at the end of an instructional task, lesson, and/or unit.

**Effective summative assessments for this course include:** performance assessments, projects, tests, writing, and quizzes.