

**WARREN COUNTY SCHOOL DISTRICT**

PLANNED INSTRUCTION

**COURSE DESCRIPTION**

**Course Title:** STEM Grade 1

**Course Number:** 08153

**Course Prerequisites:** None

**Course Description:** Technological Literacy courses expose students to the communication, transportation, energy, production, biotechnology, and integrated technology systems and processes that affect their lives. The study of these processes enables students to better understand technological systems and their applications and uses.

**Suggested Grade Level:** Grade 1

**Length of Course:** One Nine-Week Marking Period

**Units of Credit:** None

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

SPG 65 Technology Education PK-12; CSPG 69 Grades PK-4; CSPG 70 Grades 4-8;

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:** 21051

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:** SmartLab Learning Hub  
**Publisher:** n/a  
**ISBN #:** n/a  
**Copyright Date:** n/a  
**WCSD Board Approval Date:** n/a

**Supplemental Materials:** Creative Learning Systems (CLS) SmartLab and included materials

**Curriculum Document**

**WCSD Board Approval:**

**Date Finalized:** 7/3/2023  
**Date Approved:** 8/14/2023  
**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 Units**

- Circuitry: Laser Maze: Investigating Light
- Circuitry: Makey Makey
- Digital Communication: Animation-ish: Express Yourself
- Digital Communication: Pixie
- Digital Communication: SKOOG
- Heredity: Canva
- Heredity: Learn Genetics
- Circuitry: Circuit Maze: Closed Circuits
- Circuitry: Snap Circuits: Closed Circuits
- Mechanics and Structures: Geometric Shapes: Letters and Numbers

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PLANNED INSTRUCTION

**Standards/Eligible Content and Skills**

<b>Performance Indicator</b>	<b>PA Core Standard and/or Eligible Content</b>	<b>Marking Period Taught</b>
Identify and use everyday symbols.	3.5.K-2.A	MP1,MP2, MP3, MP4
Describe qualities of everyday products.	3.5.K-2.B	MP1,MP2, MP3, MP4
Explain ways that technology helps with everyday tasks.	3.5.K-2.C	MP1,MP2, MP3, MP4
Illustrate helpful and harmful effects of technology.	3.5.K-2.E	MP1,MP2, MP3, MP4
Investigate the use of technologies in the home and community.	3.5.K-2.F	MP1,MP2, MP3, MP4
Explain the tools and techniques that people use to help them do things.	3.5.K-2.G	MP1,MP2, MP3, MP4
Explain the needs and wants of individuals and societies.	3.5.K-2.H	MP1,MP2, MP3, MP4
Compare simple technologies to evaluate their impacts.	3.5.K-2.I	MP1,MP2, MP3, MP4
Safely use tools to complete tasks.	3.5.K-2K	MP1,MP2, MP3, MP4
Explore how technologies are developed to meet individual and societal needs and wants.	3.5.K-2L	MP1,MP2, MP3, MP4
Demonstrate essential skills of the engineering design process.	3.5.K-2M	MP1,MP2, MP3, MP4
Analyze how things work.	3.5.K-2.N	MP1,MP2, MP3, MP4
Illustrate that there are different solutions to a design and that none are perfect.	3.5.K-2.O	MP1,MP2, MP3, MP4
Discuss that all designs have different characteristics that can be described.	3.5.K-2.P	MP1,MP2, MP3, MP4
Apply skills necessary for making in design.	3.5.K-2.Q	MP1,MP2, MP3, MP4
Draw connections between technology and human experience.	3.5.K-2.R	MP1,MP2, MP3, MP4
Apply design concepts, principles, and processes through play and exploration.	3.5.K-2.S	MP1,MP2, MP3, MP4
Demonstrate that designs have requirements.	3.5.K-2.T	MP1,MP2, MP3, MP4
Explain that design is a response to wants and needs.	3.5.K-2.U	MP1,MP2, MP3, MP4
Explain that materials are selected for use because they possess desirable properties and characteristics.	3.5.K-2.V	MP1,MP2, MP3, MP4
Apply concepts and skills from technology and engineering activities that reinforce concepts and skills across multiple areas.	3.5.K-2.W	MP1,MP2, MP3, MP4
Develop a plan in order to complete a task.	3.5.K-2.X	MP1,MP2, MP3, MP4
Discuss how the way people live and work has changed throughout history because of technology.	3.5.K-2.Y	MP1,MP2, MP3, MP4
Illustrate how systems have parts or components that work together to accomplish a goal.	3.5.K-2.Z	MP1,MP2, MP3, MP4
Demonstrate that creating can be done by anyone.	3.5.K-2.AA	MP1,MP2, MP3, MP4

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<b>Performance Indicator</b>	<b>PA Core Standard and/or Eligible Content</b>	<b>Marking Period Taught</b>
Compare the natural world and human made world.	3.5.K-2.BB	MP1,MP2, MP3, MP4
Discuss the roles of scientists, engineers, technologists, and others who work with technology.	3.5.K-2.CC	MP1,MP2, MP3, MP4
Collaborate effectively as a member of a team.	3.5.K-2.DD	MP1,MP2, MP3, MP4

**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, local assessments, 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, writing, and narrative presentations.