Course Title: Science 3

Course Number: 08333

Course Prerequisites: None

Course Description:
Third grade science covers various aspects of biological, physical, chemical, earth, and environmental sciences using an activity-based approach. Unifying themes, inquiry and design are incorporated within the areas of study.

Suggested Grade Level: Third Grade

Length of Course: ☒ Two Semesters

Units of Credit: None (Insert None if appropriate)

PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:
CSPG 69  PK-4

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:
Publisher:
ISBN #:
Copyright Date:
Date of WCSD Board Approval: 12/3/18

BOARD APPROVAL:

Date Written: 11/1/2018

Date Approved: 12/3/2018

Implementation Date: 2019-2020
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

Science as Inquiry
- Scientific Method (introduction)
- Scientific Tools (introduction)
- Plan and implement simple investigations

3.1.A. Organisms and Cells / 4.1 Ecology
- Characteristics of living things
- Basic needs of living things
- Life cycle of animals and plants
- Functions of the structure of plants

3.1.B. Genetics
- Characteristics that appear in both parents and offspring

3.1.C. Evolution
- Plant and animal survival through adaptations
- Fossils provide us with information about living things

3.2.A. Chemistry
- Differentiate between physical properties of matter
- Differentiate between the 3 states of matter
- Recognize that all objects are made up of matter
- Recognize how heating or cooling can cause changes in the properties of matter
- Use basic reactions to demonstrate observable changes in the properties of matter

3.2.B. Physics / 4.1 Ecology
- Forces and Motion
- Sources of energy
- Explore temperature changes due to the addition or removal of heat
- Identify conductors or insulators of electricity
- Identify magnetic or nonmagnetic materials
- Identify how light travels
- Recognize that light from the sun as a source of energy

3.3.A. Earth Structure, Processes and Cycles
- Identify the ways soil is formed
- Physical properties of minerals
- Weather and climate
• Types of clouds

3.3.B. Origin and Evolution of the Universe
• Rotation of the earth and day/night
• Phases of the moon

4.1 Ecology
• Understand symbiotic relationships
• Define habitats
• Explain how changes in habitats affect organisms
• Identify changes in the environment

4.2. Watersheds and Wetlands
• Define and identify watersheds
• Identify animals and plants of a wetland

4.4. Agriculture and Society
• Identify Pennsylvania crops
• Describe how agriculture meets basic needs of humans
• Identify technology used in agriculture

4.5. Humans and the Environment
• Types of pests in both plants and animals
• Types of pollution and sources
• Describe how waste is generated

For standards, essential questions, content, and skills see Curriculum Map –

• Science as Inquiry - These standards are integrated into all areas of study within the 3rd grade Science curriculum
• 3.1.A. Organisms and Cells
• 3.1.B. Genetics
• 3.1.C. Evolution
• 3.2.A. Chemistry
• 3.2.B. Physics
• 3.3.A. Earth Structure, Processes and Cycles
• 3.3.B. Origin and Evolution of the Universe
• 4.1 Ecology
• 4.2 Watersheds and Wetlands
• 4.4 Agriculture and Society
• 4.5 Humans and the Environment
ASSESSMENT

Portfolio Assessment: ☒ Yes ☐ No

District-Wide Common Final Examination Required: ☒ Yes ☐ 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 ☐ 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? ☒ Yes ☐ No

3. Does this course issue a Pass/Fail mark? ☒ Yes ☐ No

4. Is the course mark/grade part of the GPA calculation? ☒ Yes ☐ No

5. Is the course eligible for Honor Roll calculation? ☒ Yes ☐ No

6. What is the academic weight of the course?
   ☒ No weight/Non credit ☐ Standard weight ☐ Enhanced weight