

**WARREN COUNTY SCHOOL DISTRICT**

PLANNED INSTRUCTION

**COURSE DESCRIPTION**

**Course Title:** Introduction to Earth Science Elective  
**Course Number:** 00320  
**Course Prerequisites:** None

**Course Description:** This is a one semester elective course open to all students, grades 9-12. This course focuses on the study of rocks and minerals, the theory of plate tectonics, climate, meteorology and astronomy. Relevant lab activities will be incorporated throughout, utilizing scientific inquiry and appropriate technology.

**Suggested Grade Level:** Grades 9-12

**Length of Course:** One Semester

**Units of Credit:** .5

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

CSPG General Science, Earth and Space Science

To find the CSPG information, go to <https://www.education.pa.gov/Educators/Certification/Staffing%20Guidelines/Pages/default.aspx>

**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:** 03001

To find the State Course Code, go to <https://nces.ed.gov/forum/sced.asp>, download the Excel file for SCED, click on SCED 6.0 tab, and chose the correct code that corresponds with the course.

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**TEXTBOOKS AND SUPPLEMENTAL MATERIALS**

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

**Title:** Earth Science Geology, the Environment, and the Universe  
**Publisher:** Glencoe  
**ISBN #:** 978-0-07-658713-1  
**Copyright Date:** 2013  
**WCSD Board Approval Date:** May 14, 2018

**Supplemental Materials:** [Click or tap here to enter text.](#)

**Curriculum Document**

**WCSD Board Approval:**

**Date Finalized:** 2/28/2018  
**Date Approved:** 5/14/2018  
**Date(s) Revised:** 11/5/2018  
**Implementation Year:** 2018-2019

**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, CONCEPTS, AND SKILLS**

<b>Performance Indicator</b>	<b>PA Core Standard and/or Eligible Content</b>	<b>Month Taught and Assessed for Mastery</b>
Relate plate tectonics to both slow and rapid changes in the earth's surface.	3.3.10.A1	September January
Describe the rock cycle and the processes that are responsible for the formation of igneous, sedimentary, and metamorphic rocks.	3.3.10.A1	September February
Discuss how geochemical cycles relate the conservation of matter.	3.3.10.A1	October February
Explain how the Earth is composed of a number of dynamic, interacting systems exchanging energy or matter.	3.3.10.A1	October February
Explain how gravity is responsible for planetary orbit	3.3.10.B1.	November March
Explain what caused the sun, Earth, and most of the other planets to form between 4 and 5 billion years ago.	3.3.10.B1.	November March
Provide evidence to suggest the Big Bang Theory.	3.3.10.B1.	November March
Describe the basic nuclear processes involved in energy production in a star.	3.3.10.B1.	December April
Explain how scientists obtain information about the universe by using technology to detect electromagnetic radiation that is emitted, reflected, or absorbed by stars and other objects	3.3.10.B2	December April
Describe the life cycle of stars based on their mass.	3.3.12.B1	December April
Interpret meteorological data to describe and/or predict weather.	3.3.10.A6.	January May
Explain the phenomena that cause global atmospheric processes such as storms, currents, and wind patterns.	3.3.10.A6.	January May
Determine the meaning of words and phrases as they are used in grade-level reading and content, including interpretation of figurative, connotative, and technical meanings.	CC.1.2.7.F	September May
Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 7 reading and content, choosing flexibly from a range of strategies.	CC.1.2.7.K	September May

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**ASSESSMENTS**

**PSSA 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:** Labs, projects, posters, presentations..

**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:** Teacher generated tests and quizzes