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**WARREN COUNTY SCHOOL DISTRICT**

VIRTUAL PLANNED INSTRUCTION

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## COURSE DESCRIPTION

**Course Title:**       World of STEAM
**Course Number:**     10765
**Course Prerequisites:**   None


**Course Description:**     See Attachment


**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 33
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**:


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.


## TEXTBOOKS AND SUPPLEMENTAL MATERIALS

**Supplemental Materials:**     Accelerate Education (Virtual Academy)


## Curriculum Document

**WCSD Board Approval:**
   **Date Finalized:**      9/19/2019
   **Date Approved:**     11/4/2019
   **Implementation Year:**     19-20

## 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).

## 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:** Lesson quizzes, projects, discussion boards, and module exams

**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:** Semester exams

# The World of STEAM

## Course Description:

Each aspect of the arts relies on science and technology. In The World of STEAM, students will learn why the eye sees color, how a dancer uses gravity, and what makes a sound wave travel. The arts, science, and technology are intertwined, now more than ever. Understanding the science behind the art will elevate students to a new level of creativity.

## Suggested Prerequisites:

None.

## Rationale:

The arts, science, and technology are intertwined, now more than ever. Understanding the science behind the art will elevate students to a new level of creativity.

## Materials/Equipment:

Freeware applications, digital camera, access to keyboard, open space for movement/dance

## Course Outline:

- Biology and human anatomy
- Light reflection and absorption
- Basics of drawing using geometric shapes
- The science of water and its importance in the arts
- The technology behind microphones, lighting, and other equipment used in performances
- The math behind music
- The science behind sound waves and how they travel
- The biology of dancing
- Math and science used in architecture and building design

## Assessment Methods:

- question-based tests
- essays
- creative projects