Unit #5 Modeling

Content Area: **Template**

Course(s): Time Period:

Length: **1 week** Status: **Published**

State Mandated Topics Addressed in this Unit

State Mandated Topics Addressed in this Unit	
N/A	N/A

Modeling

Learning Objectives

- Objective 1 Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder).★
- Objective 2 Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios).★

Essential Skills

- Essential Skill 1 Use geometric shapes, their measurements, and their properties to describe objects. Example a basketball is a sphere.
- Essential Skill 2 Apply geometric methods to solve design problems .

Standards

MATH.9-12.G.MG.A.1 Use geometric shapes, their measures, and their properties to describe objects (e.g.,

modeling a tree trunk or a human torso as a cylinder).

MATH.9-12.G.MG.A.3 Apply geometric methods to solve design problems (e.g., designing an object or structure

to satisfy physical constraints or minimize cost; working with typographic grid systems

based on ratios).

Instructional Tasks/Activities

- G.MG.A.3 Problems G.C Modeling Problems about Circles
- G.MG.A.3 Problems G.CO Modeling Problems about Congruence

- G.MG.A.3 Problems G.GMD Modeling Problems about Area and Volume
- G.MG.A.3 Problems G.SRT Modeling Problems about Similarity and Trigonometry

Assessment Procedure

- Classroom Total Participation Technique
- Classwork
- DBQ
- Essay
- Exit Ticket/Entrance Ticket/Do Now
- Journal / Student Reflection
- Kahoot
- Other named in lesson
- Peer Review
- Performance
- Problem Correction
- Project
- Quiz
- Rubric
- Teacher Collected Data
- Test
- Test Review
- Worksheet

Recommended Technology Activities

- Appropriate Content Specific Online Resource
- Appropriate Content Specific Online Resource
- Copy/Paste Content Specific Link Here
- Copy/Paste Content Specific Link Here
- Copy/Paste Content Specific Link Here
- Gimkit
- GoGuardian
- Google Classroom
- Google Docs
- Google Slides
- Google Slides
- Kahoot
- MagicSchool Al

- · Other-Specified in Lesson
- Quiziz
- Screencastify

Accommodations & Modifications & Differentiation

Accommodations and Modifications should be used to meet individual needs. Their IEP and 504 plans should be used in addition to the following suggestions.

Gifted and Talented

- Compare & Contrast
- Conferencing
- Debates
- Jigsaw
- · Peer Partner Learning
- Problem Solving
- Structured Controversy
- Think, Pair, Share
- Tutorial Groups

Instruction/Materials

- alter format of materials (type/highlight, etc.)
- color code materials
- eliminate answers
- extended time
- extended time
- large print
- · modified quiz
- modified test
- · Modify Assignments as Needed
- Modify/Repeat/Model directions
- necessary assignments only
- Other (specify in plans)
- other- named in lesson
- provide assistance and cues for transitions
- provide daily assignment list

- read class materials orally
- reduce work load
- shorten assignments
- study guide/outline
- utilize multi-sensory modes to reinforce instruction

Environment

- alter physical room environment
- assign peer tutors/work buddies/note takers
- assign preferential seating
- individualized instruction/small group
- modify student schedule (Describe)
- other- please specify in plans
- provide desktop list/formula

Honors Modifications

Resources

- http://geometrycommoncore.com
- https://education.ti.com/en/timathnspired/us/standards-search
- https://www.engageny.org/resource/high-school-geometry