Teacher/Designer Names: Vincent Keane & Tyiesha Bryant		
Name of Project: Millions of years in the making	Grade Level: 9/10	
Est Launch Date: 10/10/22	Est Duration (in weeks): 6	
Disciplines Involved: Social Studies, Earth Science, Math(pending)		
Problem Statement: Did Volcanoes, Earthquakes, and Glaciers help create Civilization?		

STAGE 1: DESIRED RESULTS Big Idea: Cause and Effect		
Established Goals (Standards, Performance Indicators, Learning Goals): *choose relevant standards to unit/project plan timing and learning goals; do not need to use all disciplines below. ** unpack into SWK and SWBAT under identified standards as this will lead to aligned assessment design		
ns. e processes.		

- 1- ESS-10 examine and interpret ongoing changes of the Earth system (e.g., earthquakes, *mountain building*)
- 2- ESS3.Q Natural Resources

Resource availability has guided the development of human society.

Social Studies Standards:

9.1 b Complex societies and civilizations adapted to and modified their environment to meet the needs of their population.

Students will explore how the Mesopotamian, Shang, and Indus River valley civilizations adapted to and modified their environments to meet their need for food, clothing, and shelter.

10.3 a Agricultural innovations and technologies enabled people to alter their environment, allowing them to increase and support farming on a large scale. Students will examine the agricultural revolution in Great Britain.

Mathematics Standards:

NA

ELA Standards:

RH4: Determine the meaning of words and phrases as they are used in a text, including vocabulary describing political, social, economic, or geographic aspects of history/social studies.

Technology Standards:

NYS Computer Science:

9-12.DL.4 Independently select advanced digital tools and resources to create, revise, and publish complex digital artifacts or collection of artifacts.

ISTE: NA

Social Justice Standards:

ID.9-12.5 Students will recognize traits of the dominant culture, their home culture and other cultures and understand how they negotiate their own identity in multiple spaces.

DI.9-12.7Students will develop language and knowledge to accurately and respectfully describe how people (including themselves) are both similar to and different from each other and others in their identity groups.

Other (Art, SEL, etc):

NA

Backward Stages: 1. Identify desired results. 2. Determine acceptable evidence. 3. Plan learning experiences and instruction. Adapted from Wiggins & McTighe (2005) Understanding by Design (UbD)

Links to Standards/Reference Frameworks: <u>NGSS</u> , <u>NGSS by DCI</u> <u>Nat'l C3 SS Framework</u> , <u>NYS K-8 SS Standards</u> , <u>Common Core</u> , <u>ISTE</u> , <u>Learning for Justice Social Justice Standards</u> , <u>CASEL SEL Framework</u> , <u>NYS CS and Digital Fluency</u>		
Students will know (SWK):	Students will be able to do (SWBAT):	
RH4:	RH4:	
What it means to determine something	Identify in a text	
That each word/phrase has a meaning	Reflect on the meaning of words/phrases	
Content-Specific vocabulary	Use sources to determine the meaning	
	Identify the difference between words and	
SS9.1.b:	phrases	
Complex societies and civilizations adapted to and modified their environment to meet the	Determine the meaning of words/phrases	
needs of their population.	SS9.1.b:	
How the Mesopotamian, Shang, and Indus River valley civilizations adapted to and	Explore various river valley civilizations	
modified their environments to meet their need for food, clothing, and shelter.	Examine how River valley civilizations adapted to and modified their environments to meet their need for food, clothing, and shelter.	

STAGE 2: EVIDENCE & ASSESSMENTS:

Performance Task Narrative:

Goal: Students will be able to understand how geological formations formed and how these formations helped create civilization.

<u>R</u>ole: Students will lead in discovering how geological formations have occurred through inquiry, experimentation, and creating models of these formations.

<u>A</u>udience: Peers

Situation: Students will be exposed to a plethora of geological formations and engage in learning about how they are formed. Students will then investigate how these formations have/could have led to civilization. Students can test these hypothesis through modeling and maping their hypothesis.

Product(s): *Clarify what the students will create and why they will create it.*

- 3D printed topography
- Presentation of how the topography they created would help "sprout" a civilization.

Standards (criteria for success): Provide students with a clear picture of success. Identify

specific standards for success.

- □ Students will employ Scientific Method to test hypothesis
- □ Students will compile a list of criteria for what is needed to "create" a civilization
- □ Students will create a topographical model that will "showcase" their hypothesis

Other Evidence/Assessments:

STAGE 3: THE LEARNING PLAN:

Learning Activities

(potential layout below. Can be daily, divided by periods, or even using the Engineering Design Process to divide into stages such as Ask, Imagine, Plan, Create, Improve)

Week 1

Learning Goals:

What it means to determine something That each word/phrase has a meaning Content-Specific vocabulary

Learning Events:

Students will identify the words and phrases in the text that are vital to understanding how humans adapted to their environment and how they exploit the resources and geographical features of their environment.

Students will use various sources to determine the meaning of these words and phrases.

Formative Assessments: While students are working on the section of their presentation regarding their selected geographical area/culture they will be asked to use the words and phrases identified above in their presentation. Students will be asked to share this portion of their presentation narative which showcases the vocabulary and phrases referenced above.

Notes/Resources: