



Ancient Civilizations

PROJECT OUTLINE

Driving Question

How did ancient civilizations use geometric principles to design and sustain their societies, and how can we apply those same geometric concepts to create a sustainable, futuristic society that adapts to specific climate challenges?

Individual Components: History

1. Deep Dive Research
2. Person of Interest Research

Individual Components: Math

1. Area of Composite Ancient Structures
2. Nets, Surface Area, and Volume Calculations
3. Person of Interest Research

Individual Components: Science

1. Climate Research

Group Components

1. Preliminary Research
2. City Diorama that includes building 3D structures
3. City Diorama that adapts to a specific climate issue
4. Class Presentation





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PROJECT TIMELINE



Week #1

History: Preliminary Research

Accurate, detailed research with well-developed explanations and reliable sources for all six ancient civilizations: Rome, Greece, Egypt, Mesopotamia, China, and India.



Week #2

History: Deep Dive

Accurate, detailed research with well-developed explanations and reliable sources of one chosen specific ancient civilization.



Week #3

Math: Area of Composite Ancient Structures

Accurate area calculations of one chosen ancient structure from your designated ancient civilization.



Week #4

Math: Nets, SA, Volume Calculations

Accurate surface area, volume, and net calculations, showing clear mathematical reasoning and work.



Week #5

History, Math, and Science: Research

- Accurate, detailed research and a well-developed presentation of their person of interest.
- Accurate, detailed research and a well-developed presentation of their person of interest.
- Well-researched and justified explanations for climate-adaptive components of futuristic structures.



Week #6

Final Product

- Well-designed, realistic city that demonstrates effective climate-adaptive strategies and scientific understanding.
- Accurate, well-designed city diorama that demonstrates mathematical concepts and calculations through a futuristic society based on the crucial components of your designated ancient civilization.

