

Make a Scale Drawing

Topic: Anthropology

Subtopic: Archaeology

Type: Activity

Level: for grades 3 and up

Time: Approximately 1 period

Origin: Petra

Keywords:

Archaeology--Field work • Models and model making • Science--Methodology • Scientific apparatus and instruments

MORE ABOUT THIS RESOURCE

This activity is a supplement to the Petra Educator's Guide. Here, students make scale drawings of their desks using graph paper and the metric system. It includes:

- a list of materials
- step-by-step instructions
- suggestions for an extension activity

STANDARDS

National Science Education Standards

Grades K-4:

Science as Inquiry CONTENT STANDARD A:

- abilities necessary to do scientific inquiry
- understanding about scientific inquiry

Physical Science CONTENT STANDARD B:

- properties of objects and materials
- position and motion of objects

Science and Technology CONTENT STANDARD E:

- abilities of technological design
- understanding about science and technology

History and Nature of Science CONTENT STANDARD G:

- science as a human endeavor

Grades 5-8:

Science as Inquiry CONTENT STANDARD A:

- abilities necessary to do scientific inquiry
- understanding about scientific inquiry

Science and Technology CONTENT STANDARD E:

- abilities of technological design
- understandings about science and technology

History and Nature of Science CONTENT STANDARD G:

- science as a human endeavor
- nature of science

Grades 9-12:

Science as Inquiry CONTENT STANDARD A:

- abilities necessary to do scientific inquiry
- understanding about scientific inquiry

Science and Technology CONTENT STANDARD E:

- abilities of technological design
- understandings about science and technology

History and Nature of Science CONTENT STANDARD G:

- science as a human endeavor
- nature of scientific knowledge

Curriculum Standards for Social Studies

Grades K-4:

People, places and environment

- use appropriate resources, data sources, and geographic tools such as atlases, data bases, grid systems, charts, graphs, and maps to generate, manipulate, and interpret information.

Grades 5-8:

People, places and environment

- use appropriate resources, data sources, and geographic tools such as aerial photographs, satellite images, geographic information systems (gis), map projections, and cartography to generate, manipulate, and interpret information such as atlases, data bases, grid systems, charts, graphs, and maps.

Grades 9-12:*People, places and environment*

- use appropriate resources, data sources, and geographic tools such as aerial photographs, satellite images, geographic information systems (gis), map projections, and cartography to generate, manipulate, and interpret information such as atlases, data bases, grid systems, charts, graphs, and maps.
- calculate distance, scales, area, and density, and distinguish spatial distribution patterns.

Michigan Framework for Social Studies Education**Strand 5 – Inquiry**

- **Standard 5.1 – (Information Processing)** – Students will acquire information from books, maps, newspapers, data sets, and other sources, organize and present the information in maps, graphs, charts, and time lines, interpret the meaning and significance of information, and use a variety of electronic technologies to assist in accessing and managing information.
 - **Benchmark 5.1.1 – (Early Elementary)** – Locate information using people, books, audio/video recordings, photos, simple maps, graphs, and tables.
 - **Benchmark 5.1.5 – (Later Elementary)** – Organize social science information to make and interpret maps, graphs and tables
 - **Benchmark 5.1.7 – (Middle School)** – Locate and interpret information about the natural environments and cultures of countries using a variety of primary and secondary sources and electronic technologies including computers and telecommunications where appropriate.
 - **Benchmark 5.1.8 – (Middle School)** – Use traditional and electronic means to organize social science information and to make maps, graphs, and tables.
 - **Benchmark 5.1.12 – (High School)** – Develop generalizations pertaining to a specific social science topic by interpreting information from a variety of sources.