



Engineer Your World: Maps Models & More!

6th-8th Grade, Week of: June 10th, 2024

What We Did on....Monday: CARTOGRAPHY

Cartography Lecture & Fantasy Maps

- After learning the basics of cartography, including types and characteristics of maps, campers created their own maps by tracing rice. They labeled their maps and included landmarks such as mountains and deserts.

Edible Maps

- Campers created edible maps showcasing landmarks we discussed, like rivers and canyons.

Lego Maps

- Campers used Legos to create satellite maps.

Geographic Bean Bag Toss

- Campers did a bean bag toss involving world maps and countries to learn about various regions around the world.



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What We Did on....Tuesday: GLOBAL NAVIGATION

Compasses

- Campers are introduced to compasses, calibration, and cardinal directions.

DIY Compasses

- Campers laser cut a personalized compass keychain.
- Campers build their own compasses and use them to find North. Campers learned calibration.

Map Projections

- Campers compare Robinson and Mercator map projection models, then create a model to represent the idea on a balloon.

Latitude and Longitude

- Campers learn about latitude and longitude, the prime meridian, equator, and important degrees on the globe. They then drew a representation of the globe on a balloon to keep/

Geographic Bean Bag Toss

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What We Did on...Wednesday: BIOMES & NATURAL FEATURES

Biome Lesson and Jar Activity

- Campers learned about the features of each type of biome around the world. They then created two miniature biomes in jars using animals they 3D-printed.

Resin Rivers

- Campers used colored resin to build a model of a river ecosystem.

Desert Ecosystems

- With sand and real succulents, campers created a mini desert to take home.

Water Density Investigation

- Kids explored how the density of freshwater and saltwater compares with fake jewels, salt, sugar, and baking soda. They wrote hypotheses and explored the reasoning behind floating or sinking.



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What We Did on....Thursday: TOPOGRAPHY

Topography and Elevation Lesson

- Campers were introduced to the study of elevation (topography) with a brief lecture.

Salt Dough Maps

- Campers sculpted and painted salt dough maps to represent levels of elevation on a continent or area.

Vinyl-Cutting Camp Shirts

- Campers used the vinyl cutter to print and cut custom designs for their Engineer Your World camp T-shirts.

Craft Foam Isoline Maps

- To represent topography in a different way, campers used colored craft foam to depict a country or region.

Geographic Bean Bag Toss

- Campers did a bean bag toss involving world maps and countries to learn about various regions around the world.

Continents and Oceans Game

- Campers learned about the locations of continents and oceans, and played a game to go with it. Campers also received a laser cut of the world.



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What We Did on....Friday: MAKE YOUR OWN COUNTRY

Weeding Vinyl

- Campers weed the vinyl for their personalized t-shirts.

Painting Salt Dough Maps

- Campers painted elevation and details onto their salt dough country.

Flag Design

- Campers designed a flag for their own countries and then painted it onto a piece of laser cut wood.

World Geography Activity

- Campers learned about world continents, oceans, and countries in a fun, partner game. They then received a laser cut map of the world.