

Math Design Projects

Pre-Algebra

Cartoon

Design a photo cartoon, showing the use of fractions in daily life.

Poster

Design a poster that displays amounts using a bar or line graph.

T-Shirt

Design a T-shirt that shows and labels the different types of triangles.

Brochure

Create a brochure that explains decimals, fractions, and percents, showing how to convert one to another.

Blueprint

Create a blueprint of your classroom, using accurate scale measurements to depict each part.

Scale Model

Measure something large (a building or vehicle) and make a model of it to precise scale.

Rube Goldberg Machine

Create a Rube Goldberg machine that depicts the order of operations to use in solving math problems.

Algebra

Cartoon

Design a comic strip showing the steps for solving an algebra equation.

Poster

Create a poster that graphs different slopes when variables change in a linear equation.

Brochure

Create a brochure that explains what variables are and shows how to isolate them to solve equations.

Blueprint

Create a blueprint for a small building (for example, a shed) and write formulas for calculating the amounts of various materials necessary for its construction.

Scale Model

Build a scale model of a vehicle, calculating proportions for each part.

Rube Goldberg Machine

Design a Rube Goldberg machine using parts that involve probability, such as bouncing marbles, pouring sand, falling dominoes, and so on.

Geometry

Cartoon

Create a photo cartoon showing objects with line symmetry and rotational symmetry.

Poster

Design a poster that shows how to find the volume of a cube, cylinder, or sphere.

Brochure

Create a brochure that explains the different types of triangles.

Blueprint

Create a blueprint for a building in which each room is a non-square quadrilateral.

Scale Model

Build a scale model of a regular solid.

Rube Goldberg Machine

Create a Rube Goldberg machine using geometric shapes for each component.