

REAL WORLD MATH AND THE HOUSE THAT MATH BUILT

Real World Math notebook projects and The House That Math Built cover many standards as described in the 2000 publication of Principles and Standards by NCTM (National Council of Teachers of Mathematics).

The following is a short summary of standards that our products cover:

Numbers and Operations

- work flexibly with fractions, decimals, and percents to solve problems;
- understand the meaning and effects of arithmetic operations with fractions, decimals, and integers;
- select appropriate methods and tools for computing with fractions and decimals from among mental computation, estimation, calculators or computers and paper and pencil, depending on the situation, and apply the selected methods;

Geometry

- precisely describe, classify, and understand relationships among types of two- and three-dimensional objects using their defining properties;
- understand relationships among the angles, side lengths, perimeters, areas, and volumes of similar objects;
- use two-dimensional representations of three-dimensional objects to visualize and solve problems such as those involving surface area and volume;
- recognize and apply geometric ideas and relationships in areas outside the mathematics classroom, such as art, science, and everyday life.

Measurement

- understand both metric and customary systems of measurement;
- understand relationships among units and convert from one unit to another within the same system;
- understand, select, and use units of appropriate size and type to measure angles, perimeter, area, surface area, and volume.
- develop strategies to determine the surface area and volume of selected prisms, pyramids, and cylinders;