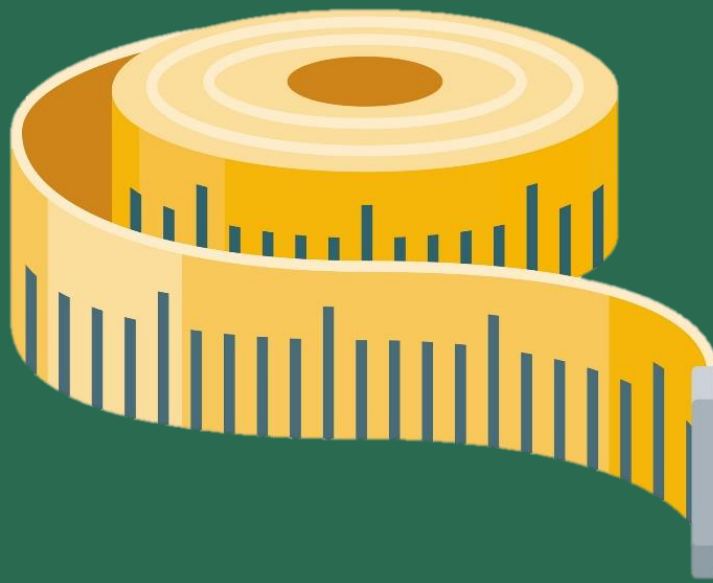


Exploring Measurement

Build a Prototype



Math Project-Based Learning Grades 3-5

Design/Build/Test a Product Prototype

Think Like an Entrepreneur

Real-World Measurement and Conversion



Lesson Plan:

Exploring Measurement and Conversion

ABOUT THIS PROJECT-BASED LESSON

This project-based learning unit is designed to teach and reinforce the concepts in a middle school mathematics unit on measurement and can be used in conjunction with existing curriculum materials.

The project is divided into 5 Milestones; each Milestone includes a self-contained student project activity. Done in sequence, the Milestones connect to enable students to produce a comprehensive capstone activity.

The minimum suggested duration for completing this project is 5 class periods. However, it is completely flexible and can be lengthened or shortened as necessary, based on available class time and interest level.

HOW TO USE THIS TEACHING GUIDE

Each Milestone for this project-based learning unit includes detailed daily activities presented in step-by-step order, with teaching notes, instructional guidance, and page references to resources and materials included in the Teacher Pack and Student Pack.

Daily activities are organized for you as follows:

- **Prepare (Bell-ringer/opener activity)**
Use these short opening activities at the beginning of class.
- **Present (Lecture/model)**
Use this portion of the lesson to deliver new subject material and project information, and to model any instructions or activity required for Produce or Participate elements.
- **Produce (Student project work)**
Use this portion of the lesson to allow students to work independently or in small groups on activities and other project elements.
- **Participate (Student/group share)**
Use this portion of the lesson to allow students to share out any project, research, or presentation materials.
- **Practice (Homework/assessment/independent)**
Use this optional portion of the lesson, if desired, to give students homework activities.