

# Lesson 6: Estimate and Measure Weight

## Standards Alignments

Addressing 3.MD.A.2

Building Towards 3.MD.A.2

## Teacher-facing Learning Goals

- Measure and estimate weights of objects using standard units of grams (g) and kilograms (kg).

## Student-facing Learning Goals

- Let's measure and estimate weight.

## Lesson Purpose

The purpose of this lesson is for students to learn to measure and estimate the weight of objects in grams or kilograms.

In previous grades, students learned that weight is a measurable attribute and directly compared the weights of two objects. In this lesson, students learn that **weight** is a measure of how heavy something is. They are introduced to **grams** and **kilograms** as metric units for measuring weight. Students hold objects of different numbers of grams and kilograms to familiarize themselves with the units before estimating the weight of objects in those units. Since the distinction between mass and weight is beyond what students need to learn, the term “weight” is used throughout the unit.

To build a sense of weight measurements and an intuition for comparison, it is extremely helpful for students to have firsthand experience of holding different weights. To make that possible, some new materials and preparation are required for this lesson.

## Access for:

### Students with Disabilities

- Action and Expression (Activity 2)

### English Learners

- MLR8 (Activity 2)

## Instructional Routines

Notice and Wonder (Warm-up)

## Materials to Gather

- Chart paper: Activity 1

- Markers: Activity 1

### Lesson Timeline

Warm-up	10 min
Activity 1	30 min
Activity 2	10 min
Lesson Synthesis	5 min
Cool-down	5 min

### Teacher Reflection Question

What ideas about liquid volume do students have from their everyday lives? How did these ideas influence their work in this lesson?

---

## Cool-down (to be completed at the end of the lesson)

 5 min

### About a Kilogram

#### Standards Alignments

Addressing 3.MD.A.2

#### Student-facing Task Statement

Select **all** the objects that could have a weight of about a kilogram.

- A. a bicycle
- B. a book
- C. a marble
- D. a pencil
- E. a bunch of bananas

#### Student Responses

B and E