

Unit 4 Module 1 Session 6

Problems & Investigations- Estimate, Measure & Compare the

Mass Getting Ready-

- Pan Balance Scale with Metric Weights (additional if available)
- 25 Plastic Cubes, 25 Plastic Cubes per Group (optional) (See Prep)
- A Few New, Unsharpened Pencils
- 25 Regular Paper Clips Per Pair of Students
- 5 Boxes of 100 Regular Paper Clips
- A Rock a Little Less Than 1 KG
- Several Objects With a Mass of Under 100 g (see Prep)

Getting Ready Con't.

- Student Journals
- Basket(s) of Objects to Measure (See Preparation)
- SB 112-113 Estimate, Measure & Compare the Mass

VOCABULARY

Gram (g)

Kilogram (kg)

Mass

Metric System

Pan Balance Scale



- Estimate and measure mass in grams and kilograms; solve story problems involving addition, subtraction, and multiplication of mass measurements given in grams and kilograms

What would I need to do to find the mass of a



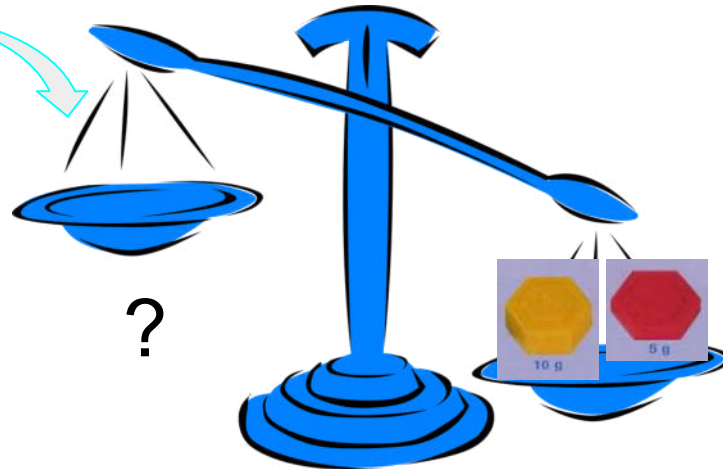
VOLUNTEER
PLEASE

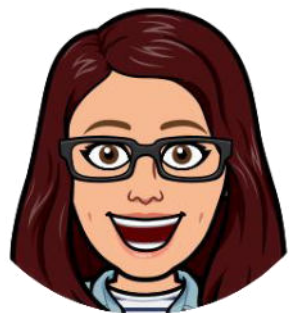


How could I use metric weights?



If I had one 10 gram weight and one 5 gram weight on one side of the balance scale how many cubes would I need on the other side to balance it?





Estimate, Measure & Compare the Mass page 1 of 2

- 1** In the table below:
 - a** Write the name of an item in the first column. Estimate the mass and record it in the second column.
 - b** Find the actual mass of the item and record the measurement. Round your measurement to the nearest gram.
 - c** Find the difference between your estimate and the actual measurement. Record the difference in the last column.
 - d** On the second page, continue estimating, finding the mass, and finding the difference for all the items. Use what you know about the mass of the first item to estimate the others.

Item	Your Estimate (in grams)	Actual Measure (in grams)	The Difference (in grams)
Pencil			
Rock			

Item	Your Estimate (in grams)	Actual Measure (in grams)	The Difference (in grams)

2 Answer the questions.

a When people measure the mass of an object, they are finding out (circle one):

how long it is

how heavy it is

how much matter is in it

how wide it is

b To find the mass of an object, you need (circle one):

a ruler

a balance

a bathroom scale

a measuring cup

c If you want to find how long a skateboard is, you would use (circle one):

a ruler

a balance

a bathroom scale

a measuring cup

3 When you finish, choose additional items in the classroom you want to measure and record them in your math journal.

Work Places

2D Doubles Help

3A Round Ball Tens

3B Add & Round Tens

3C Round Ball Hundreds

3D Round & Add Hundreds

4A Tic-Tac-Tock

Daily Practice

SB 114 Grams & Kilograms

Home Connection

HC 65-66 Measuring Mass & Weight