

Properties of Matter & Conservation of Mass

Also Part 2 of the lesson worksheet.

Name: _____

Date: _____

EXPECTATIONS

5 min silent + 2 min share

1. Answer in Part 2 of the lesson worksheet (or on this sheet).
2. Number each answer to match the question.
3. Answer in complete sentences. For math, show your work.
4. Work silently for 5 minutes, then share with a partner for 2 minutes.
5. Be ready to share one answer with the class.

WARM-UP QUESTIONS

1. List three properties you could use to describe a rubber ball.

2. A backpack has a mass of 3 kg. You put a 1 kg book inside. What is the total mass? Explain how you know.

3. Predict: If you melt a 50 g ice cube in a sealed bag, will the water weigh more, less, or the same? Why?

Today's target: I can measure and describe properties of matter and explain why mass stays the same when matter changes.

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What to look for in student answers.

#	Question	Look for
1	List three properties you could use to describe a rubber ball.	Any three: color, shape, size, texture, bounciness (elasticity), mass, volume, hardness.
2	A backpack has a mass of 3 kg. You put a 1 kg book inside. What is the total mass? Explain how you know.	4 kg. Masses add: $3\text{ kg} + 1\text{ kg} = 4\text{ kg}$. Nothing was taken away.
3	Predict: If you melt a 50 g ice cube in a sealed bag, will the water weigh more, less, or the same? Why?	The same, 50 g. No matter entered or left the sealed bag; the water just changed state.

Use the warm-up to activate prior knowledge. Call on 2-3 students, and write one strong answer on the board as a model. Question 3 previews today's lesson, so do not correct it yet; come back to it in the debrief.