

Kinetic & Potential Energy and Heat Transfer

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. Give one example of something that has energy because it is moving.

2. Which has more stored energy: a book on the floor or the same book on a high shelf? Why?

3. Why does a metal spoon in hot cocoa get hot at the handle?

Today's target: I can explain how energy changes between kinetic and potential forms and identify conduction, convection, and radiation.

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What to look for in student answers.

#	Question	Look for
1	Give one example of something that has energy because it is moving.	Examples: a rolling ball, wind, a running dog.
2	Which has more stored energy: a book on the floor or the same book on a high shelf? Why?	The book on the high shelf, because it is higher, so it could fall farther.
3	Why does a metal spoon in hot cocoa get hot at the handle?	Heat moves through the metal from the hot end to the cooler end (conduction).

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.