

Smartboard Jeopardy

Team 1 Score		00		Jeopardy	Team 2 Score		00		
0	2	4	6	8	0	2	4	6	8
1	3	5	7	9	1	3	5	7	9
Category 1		Category 2		Category 3		Category 4		Category 5	
100	100	100	100	100	100	100	100	100	100
200	200	200	200	200	200	200	200	200	200
300	300	300	300	300	300	300	300	300	300
400	400	400	400	400	400	400	400	400	400
500	500	500	500	500	500	500	500	500	500

Lesson notes



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Lesson Notes

Directions for using this Smartboard Jeopardy template.

Double click on the Category names to edit and change.

Edit each of the Question pages with the Question and Answer. You must move the purple reveal box to enter the correct response, then move the reveal box over the answer until it is covered. After all questions are entered Save As ... and give it another name. This helps preserve the template.

The blank purple button in the center of the Jeopardy board is an Infinite Cloner and is used to place over the question button when you return to the Jeopardy Board. This shows that this button has been chosen and can not be chosen again.

The white cells are for the score keeper to keep score of the teams. Drag the numbers to the cell to change score. Drag the white rectangle to the cell to delete score.



Jeopardy Board

Warm-Up: When we did shake the shot, what did we see happen and why?

**Grab white board, marker and eraser.*

Homework - Study for Energy Unit test tomorrow

Lab booklets will be collected and graded tomorrow

Agenda:

1. Warm-Up
2. Jeopardy Rules
3. Jeopardy Teams
4. Play Jeopardy!
5. Final Jeopardy

kinetic → thermal



Team 1 Score

		0		
0	2	4	8	
1	3	5	7	9

Jeopardy

Team 2 Score

		00		
0	2	4	6	8
1	3	5	7	9

Energy - Types, Transfer and transform

Renewable Energy and Nonrenewable Energy

Important ideas and topics from labs

Vocabulary

Potential and Kinetic Energy

100	100	100	100	100
200	200	200	200	200
300	300	300	300	300
400	400	400	400	400
500	500	500	500	500

Category 1 - 100

When hitting a nail with a hammer we notice energy _____ (Transfer or transform).

move to reveal

Jeopardy Board

Category 1 - 200

The efficiency of transforming energy sources into electricity is almost 100%
- True or False

move to reveal

Jeopardy Board

Category 1 - 300

Cory noticed that the hood of the car was hot after driving for awhile. What energy transformation was she noticing?

_____ --> _____

move to reveal

Jeopardy Board

Category 1 - 400

What energy transformation takes place when a radio is plugged in and turned on?

_____ --> _____

move to reveal

Jeopardy Board

Category 1 - 500

How can we demonstrate The Law of Conservation of Energy? Write an example.

move to reveal

Jeopardy Board

Category 2 - 100

From our lab, describe what it means to be a renewable energy.

move to reveal

Jeopardy Board

Category 2 - 200

Give 3 examples of renewable resources.

move to reveal

Jeopardy Board

Category 2 - 300

What are the advantages (list 2) and disadvantages (list 2) of wind energy?

move to reveal

Jeopardy Board

Category 2 - 400

What does it mean to be a nonrenewable resource?

move to reveal

Jeopardy Board

Category 2 - 500

Even though biomass is a renewable resource, do you think it is good for the environment?

move to reveal

Jeopardy Board

Category 3 - 100

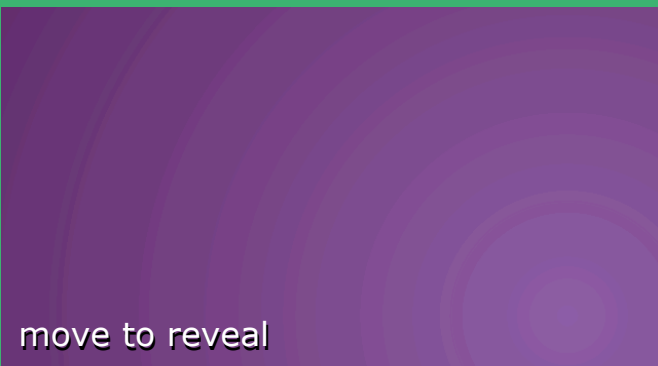
Objects of different masses are suspended from a height. What is the combination of features that will give you the greatest gravitational potential energy?

move to reveal

Jeopardy Board

Category 3 - 200

Putting on reflective film on your car windows helps keep the interior cool by _____ the sun's light and heat.



Jeopardy Board

Category 3 - 300

On a hot summer day, asphalt is hot on your bare feet because the asphalt has _____ heat from the sun.

move to reveal

Jeopardy Board

Category 3 - 400

When you open a door to a refrigerator for a minute, what happens?

move to reveal

Jeopardy Board

Category 3 - 500

After a long run, the soccer player put a cold water bottle to their warm forehead. Their forehead began to feel cooler, why?

move to reveal

Jeopardy Board

Category 4 - 100

How do you use conduction to melt the ice in our ice melting contest?

move to reveal

Jeopardy Board

Category 4 - 200

Energy can be transferred and transformed, however it can never be _____.

move to reveal

Jeopardy Board

Category 4 - 300

What are fossil fuels?

move to reveal

Jeopardy Board

Category 4 - 400

What does the Law of Conservation of Energy State?

move to reveal

Jeopardy Board

Category 4 - 500

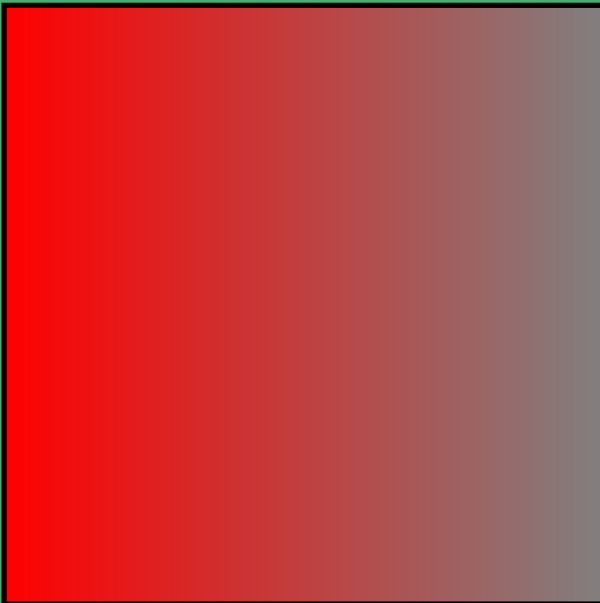
The efficiency of an average gasoline powered car is about 20%. What does this mean?

move to reveal

Jeopardy Board

Category 5 - 100

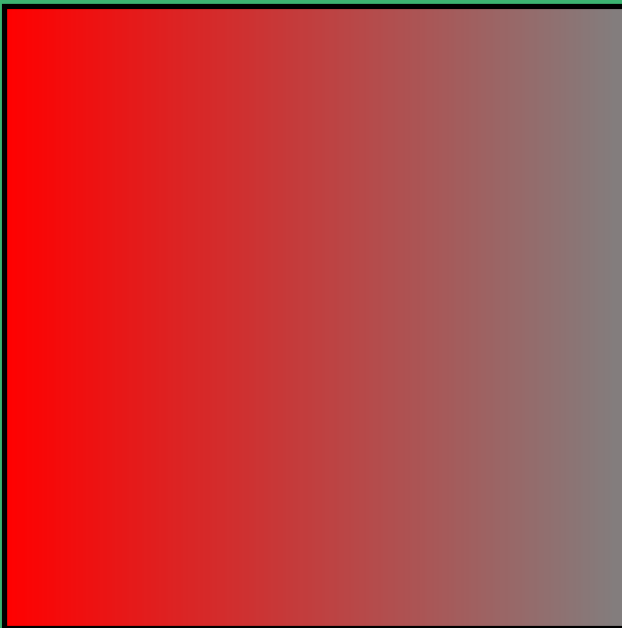
What is potential energy?



Jeopardy Board

Category 5 - 200

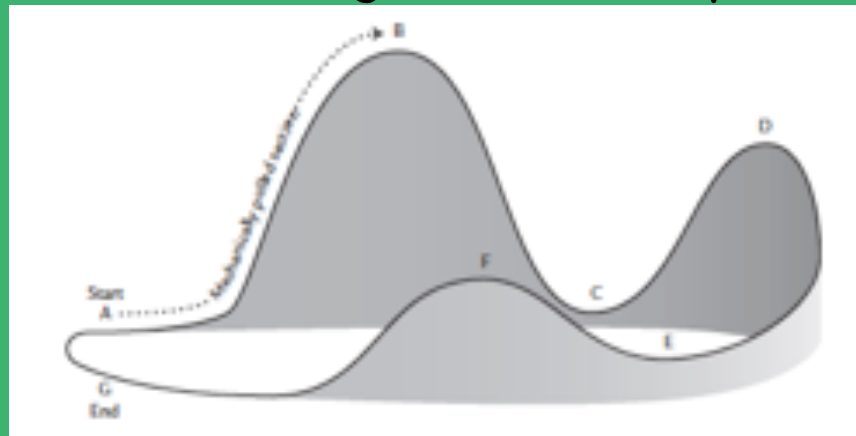
What is kinetic energy?



Jeopardy Board

Category 5 - 300

Look at the diagram below of the roller coaster. At which point does a train on the track have the MOST gravitational potential energy?



move to reveal

Jeopardy Board

Category 5 - 400

What is the difference between gravitational potential energy and potential energy?

move to reveal

Jeopardy Board

Category 5 - 500

Draw a picture depicting the change from potential energy to kinetic energy.

move to reveal

Jeopardy Board

Final Jeopardy
MAKE YOUR WAGER

Based on the advantages and disadvantages of each (solar, wind, tidal, fossil fuels, hydroelectric, nuclear, biomass), which energy source do you feel is best for electricity generation? Why? Provide at least 2 reasons to support your choice.

