

Let's Play Jeopardy!

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



Types of Energy

Energy Transfers

Conductors

Other

Vocabulary

TEAM 1 0



TEAM 2 0



TEAM 3 0



TEAM 4 0



TEAM 5 0



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The energy present in moving things,



ANSWER

Motion Energy



BACK

Mrs. Gjurasic sings her favorite song. What kind of energy is this?
(hint: 3 types)

ANSWER

Chemical, Motion, Sound Energy

BACK

Mr. Crumb's class screams and bangs on the wall of Mr. Barnes classroom. What types of energy are being used? (hint: there are 3)

ANSWER

Sound, Chemical, Motion energy

BACK

The sun is shining down on a beach in Hawaii. What kinds of energy are being used?
(There are 2)

ANSWER

Heat and light energy

BACK

Bob makes a cup of coffee. What kinds of energy are used in this process? (hint: there are 2 types)

ANSWER

Electrical-coffee maker
Heat-warms the coffee.

BACK

Think back to the solar panel demonstration. Explain how energy transferred to make the propeller spin.

ANSWER

Example answer: Light (solar) energy hits the solar panel and changes to electrical energy. Electrical energy powers the motor making the propeller spin (motion energy).

[BACK](#)

In the Hot Water, Cold Water experiment, what happened to the temperature of the cold water after a few minutes?

ANSWER

The cold water gradually got warmer.

BACK

Explain the energy transfer of shooting a rubber band across the room.

ANSWER

Elastic energy while the rubber band is stretched, transfers to motion energy when let go.

BACK

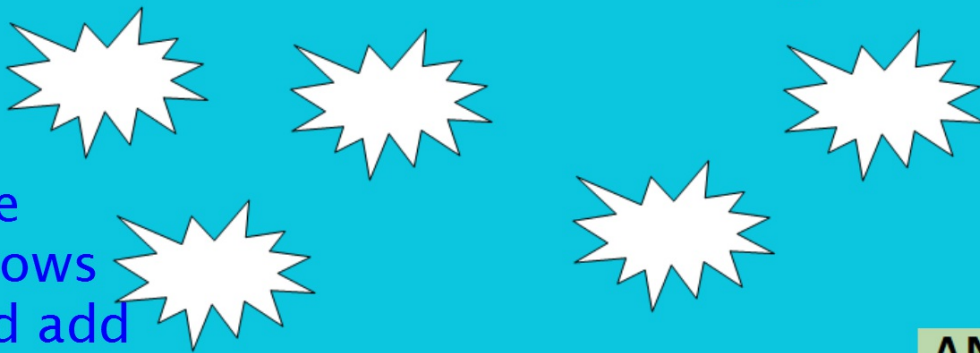
When you take a bath, the water is hot. If you stay in there too long it becomes colder and colder. Explain what happened to the water and be specific with types of energy.

ANSWER

The heat energy is leaving the bath water and transferring to the surrounding air.

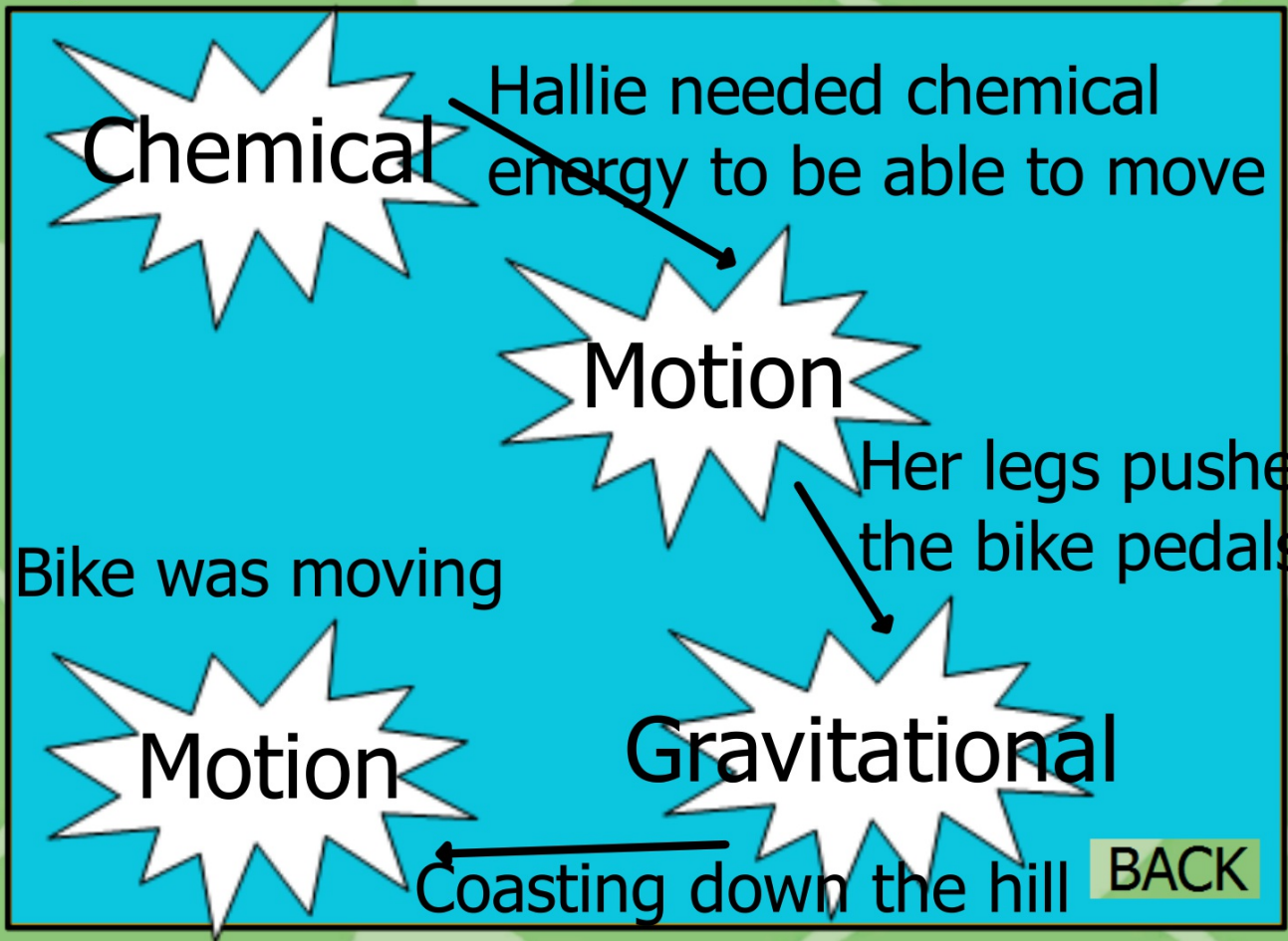
BACK

Hallie rides her bike to the top of the hill and coasts down. She doesn't think she is using energy. Prove how she IS using energy.



Use arrows and add descriptions

ANSWER



Heat energy transferred fastest through the _____ rod.

ANSWER

Copper

BACK

Why did heat energy transfer slowest through the bamboo and plastic rods?

ANSWER

Plastic and Bamboo
are good insulators
of heat energy, not
conductors

BACK

What can you conclude about transfer of heat through different materials?

ANSWER

Heat transfers through metals faster because they are good conductors of heat energy. Plastics or bamboo are better insulators than conductors.

[BACK](#)

What material or combination of materials would you use to make a baking pan to bake a batch of cookies? Why?

ANSWER

Example answer: I would use aluminum because heat transfers through aluminum easily. This will allow the cookies to cook.

BACK

Which material or combination of materials would you use to make a cup for holding hot chocolate? Why? (Remember that you want to keep your hands cool but the hot chocolate hot!)

ANSWER

Example Answer: I would use aluminum for the inside of the cup to keep the hot chocolate warm, and plastic for the outside to keep my hands cold.

BACK

In the Hot Water, Cold Water experiment, what happened to the warm water over time?

ANSWER

It gradually decreased.

BACK

When you rub your hands together what type of energy are you generating?

ANSWER

Heat Energy

BACK

Think back to the tuning fork activities. Explain what happened when you touched the tuning fork to different objects (after hitting it on the wood block)?

ANSWER

Example Answer:

**Cheek: it tickled my cheek because
of the vibrations.**

BACK

Explain how energy transfers so that we can hear.

ANSWER

Sound causes vibrations in your ear, the vibrations send an electrical signal to your brain.

BACK

Explain how energy transfers
when we talk.

ANSWER

Motion energy causes vibrations in the vocal cords to move up the throat. The vibrations create sound.

BACK

Give an example of chemical energy.

ANSWER

an apple (food)
battery

BACK

What is it called when energy moves from one object to another, or changes forms?

ANSWER

Energy Transfer

BACK

Energy transferred from the sun is called: _____.

ANSWER

Solar Energy

BACK

Give two examples of gravitational energy.

ANSWER

Examples:

wagon rolling down a hill

water on top of a waterfall

[BACK](#)

(From the tuning fork activity)
Frequency is: _____.

ANSWER

How fast or how slow something is vibrating.

BACK

Final Jeopardy

Bob is eating an apple. Is this stored/potential energy or energy in motion?

ANSWER

Final Jeopardy

Both. Motion energy is used while he is eating the apple, and there is stored chemical energy from the apple.

BACK

Topic 2

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200

300

400

500

Click here to mark that the question has been answered or attempted.

It will turn red.

Click here to go to the question page.

