



**G4 EXIT
TICKET**



HEAT ENERGY

Direction: Decide which kind of heat transfer is taking place.
Choose the right answer.

RADIATION CONVECTION CONDUCTION

Using a blanket at night.



Standing near a hot grill.



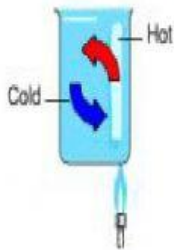
Holding an ice cube.



Sitting on the hot leather seats of a car.



Hot water or air rising.



Using a microwave to pop popcorn.



Ice cream melting on a hot day.



Picking up a hot mug of cocoa.



Operating a hot air balloon.



Boiling water to make pasta.



Turning on the heater in the winter.



Warming up an oven to bake cookies.





★ **SOLIDS, LIQUIDS AND GASES**

TRUE or FALSE

Direction: Read each statement below. Write T if the statement is true and F if it is false.

1. Matter can be solid, liquid, or gas.
2. Liquids have definite volume.
3. Gases have definite shape.
4. Solids have definite volume and shape.
5. Liquids have the ability to flow.
6. The particles of gas are closely packed with each other.
7. Liquids follow the shape of its container.
8. Gases have definite volume and definite shape.
9. The particles of liquids have particles that are very far from each other.
10. Water is a solid.



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★ SOUND

How Sound Travels

Sound travels in waves by vibrating matter molecules through a medium (gases, liquids, and solids).
Sound can not travel through empty space, because there are no molecules to vibrate.



I. Choose the correct word:

Sound is a form of

It is produced by the of bodies.

We perceive it through our sense of

Sound energy is a type of energy because it is the energy of molecules . Vibration is a type of movement, so sound energy is kinetic energy

Sound Energy



When someone plays the guitar, the strings vibrate and transmit energy

II. Choose the correct answer.

Sound travels in

- ☐ curved lines and in all directions
- ☐ straight lines and in all directions
- ☐ straight lines and in one direction
- ☐ curved lines and in one direction

It is possible for sound to travel through ... in matter or materials.

- ☐ vibrations
- ☐ a loud volume
- ☐ a high pitch
- ☐ a high pitch and a loud volume

An astronaut picks up a rock from the moon and throws it hard against another rock. There is no sound. Why not?

- ☐ Because your ears don't work on the Moon.
- ☐ Because there is no gravity on the Moon.
- ☐ Because rocks are soft and squashy on the Moon.
- ☐ Because there is no air on the Moon so sound cannot travel.

Regarding sound, which of these sentences is false?

- ☐ Whenever a sound is made, something vibrates.
- ☐ The pitch of a sound means how high or low the sound is.
- ☐ Quiet sounds can damage your ears.
- ☐ Sound can travel through any medium.



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★ LIGHT ENERGY

Words to remember

Instructions: Write the word next to the description it matches.

absorption	prism	refraction	oblique
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1. _____ a piece of glass that separates white light into its different wavelengths.
2. _____ occurs when an object takes in a light wave.
3. _____ The bending of light when it passes into a new medium.

Explain

Write if each statement is true or false. Explain your choice.

4. A piece of glass reflects more light than a piece of paper.

The statement is _____ because

_____.

5. Only sound energy travels in waves.

The statement is _____ because

_____.

