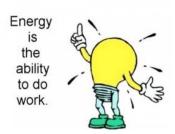
STUDENT JOURNAL

Where Can We Find Different Forms of Energy?



Station 1: Ironman and Mechanical Energy

Directions:

- 1. Wind up the toy, place it on a flat surface, and watch it move.
- 2. Complete section A below.
- 3. Now look at the inside of the toy.
- 4. Complete section B below.



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What caused the item(s) to move?	

A. Draw what you think the toy looks like inside. B. Draw what the toy actually looks like inside.

Station 2: Aquaman and Sound Energy

Directions (Water Speakers):

- 1. Plug in the water speakers.
- 2. Press 'Play' on the phone.
- 3. Adjust the volume on the phone.
- 4. Play a slow song, then a fast song.
- 5. Record your observations.
- 6. Adjust the volume. Record your results.



Draw and explain what happened to the water when you played a quiet song and a loud song.

Quiet Song	<u>Loud Song</u>		
What happens when you change the tempo	o. What caused the change?		

Station 3: Batman and Light Energy

Directions:

- 1. Turn on flashlight.
- 2. Hold the flashlight close to the construction paper.
- 3. Record your observations.
- 4. Hold the flashlight at eye level. Record your observations.
- 5. Tilt the flashlight at an angle. Record your observations.

Draw three shapes that you made with your flashlight.

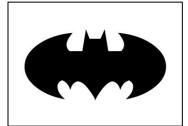
Close to Paper	Eye Level	Tilted at a 45 degree angle
What made the shapes a	ppear differently?	

Station 4: Superman and Heat Energy

Directions:

- 1. Place 6 drops of blue food coloring in the cold water.
- 2. Record your observations.
- 3. Put 6 drops of red food coloring in the hot water.
- 4. Record your observations.

Draw and explain what happened with the water and food coloring.





Food coloring in cold water (Blue)

Food coloring in hot water (Red)

Station 5: Thor and Electrical Energy

Directions:

- 1. Open the Ziploc bag that contains your electrical kit.
- 2. You should have 1 battery, 1 wire (foil), and 1 light bulb in your kit.
- 3. Draw a picture of how you plan to make the bulb light.
- 4. Try to complete the circuit by lighting the bulb!
- 5. Record your results of how you were able to light the bulb.

Draw how you were able to light the bulb in the box below.

Prediction of how to make the bulb light	Results of how to make the bulb light

Explain how you were able to light the bulb.



Now, let's discuss and share your findings with the rest of the class! ©

Operation Game	0	per	atic	n	Ga	me
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1.	What types of energy are used in this game?
	Con you identify which nexts of this game demonstrate electrical energy?
۷.	Can you identify which parts of this game demonstrate electrical energy?
3.	Can you tell about another time you have noticed electrical, sound, or light energy?
4.	How do you see light energy demonstrated in the operation game? Where is another place you have seen light energy?
5.	Why do you think there is plastic at the end of the tweezers? Tell a buddy.
6.	How could you add another form of energy into the game?



Find this lesson at: http://eteamscc.com/2016/superhero-energy-explorations/

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