




science  storms  
Phenomena  
Student Guide

Name \_\_\_\_\_

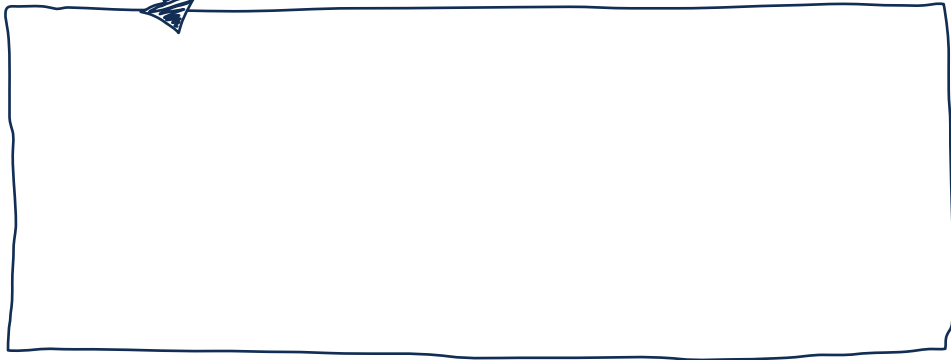
Instructions: Cut pages, assemble in numerical order, and staple to form a booklet.

1

**Avalanche: Motion**

Avalanches—or flows of granular material—demonstrate how forces such as friction and gravity can act on an object, affecting its motion.

Pick one of the motion experiments. Draw or describe the movement you see.



Why does it move like that?



2

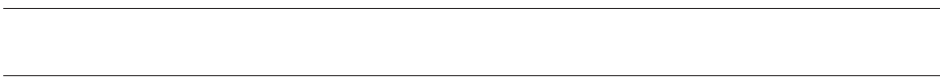
**Tornado: Vortex**

A tornado is a vortex formed by a combination of humidity, convection, wind and air pressure differences.

Find a vortex. Draw it here:



Investigate the vortex at the large tornado, at the small vortex display, or with the hot air balloons. What do you observe?

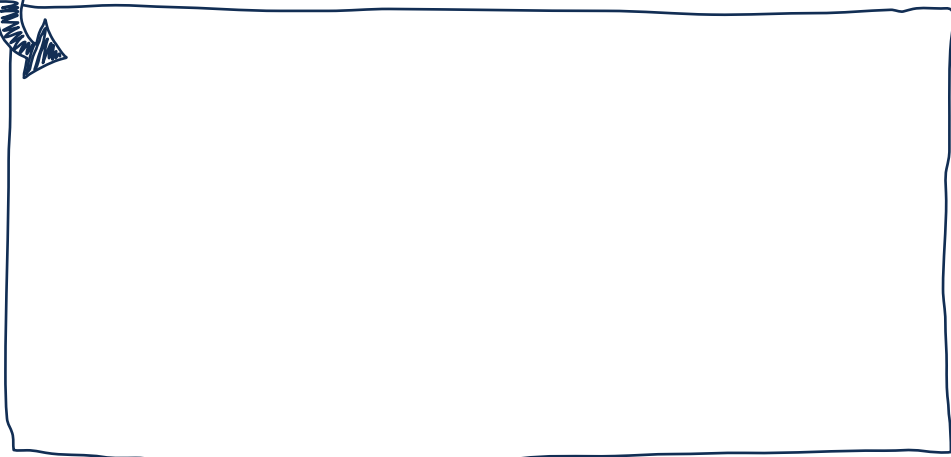


3

**Sunlight: Rainbow**

Sunlight travels as a wave and can be split into a rainbow of colors. It also can be converted into electricity or heat.

Find an experiment with light or color. Draw and explain what is happening to the light or colors.

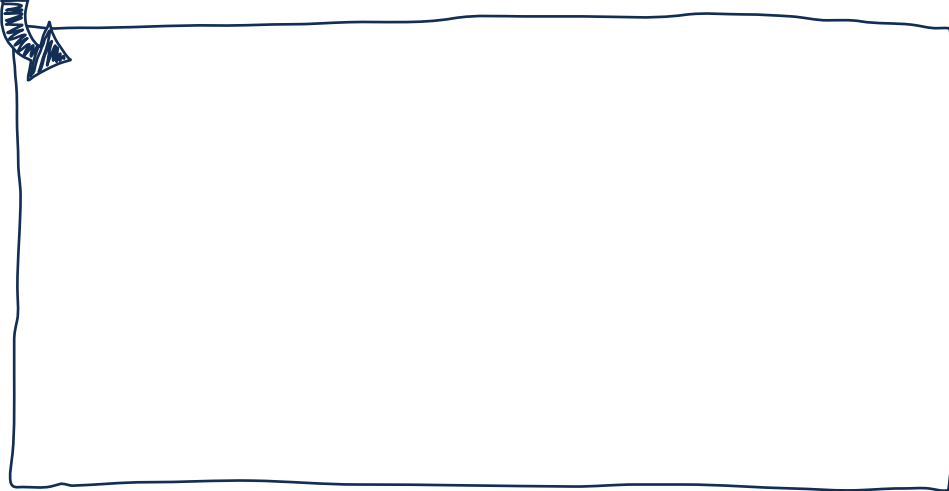


4

## Tsunami: Wave

A wave is energy being moved from place to place through a medium such as air or water.

Draw and describe one type of wave you see in the exhibit.

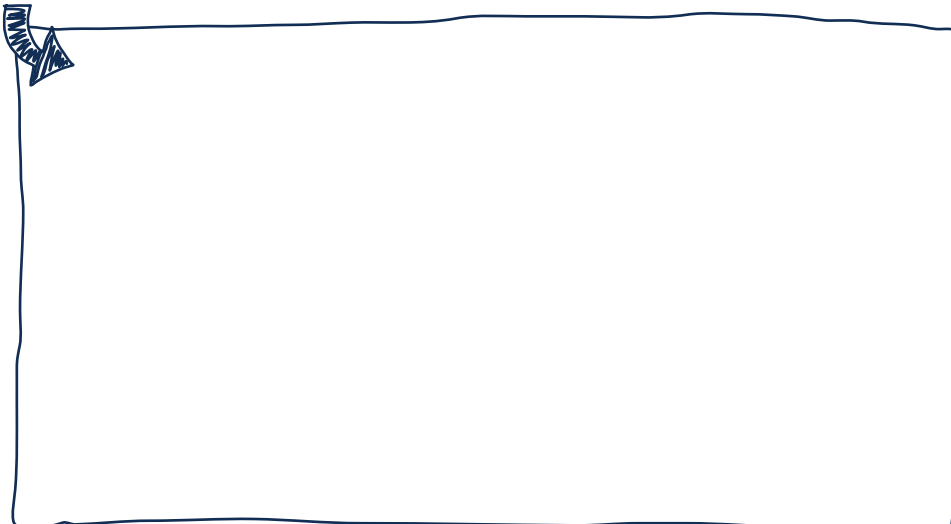


5

## Fire: Combustion

Fire is a chemical reaction of fuel, oxygen and heat.

Draw and describe what happened during your investigations with fire.

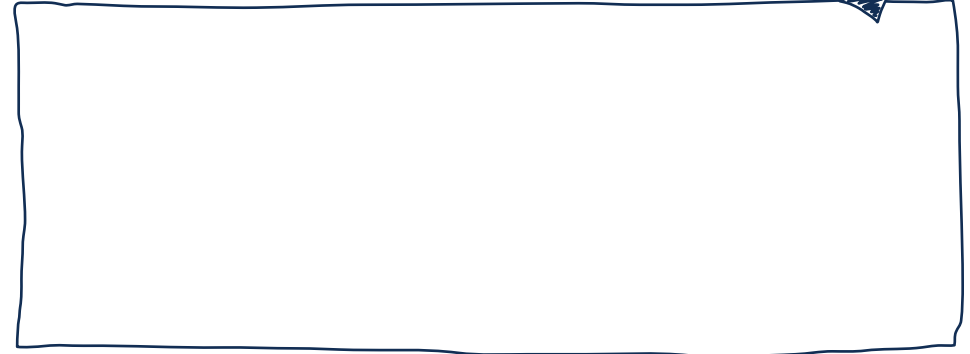


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## Lightning: Charge

Explore the properties of electrical charge and magnetism as you learn how the Tesla coil builds up and releases massive amounts of energy.

Did you see any lightning? Draw or describe what you observe.



What do you wonder about lightning?

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## Atoms: Reaction

Atoms are the basic building blocks of matter. They determine the properties and behaviors of all materials.

What did you discover about atoms?

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