BLAST OFF!

STUDENT WORKBOOK

WONDER

SAMPLE

ACTIVITY 1

TRAVELING TEA BAG

Light a tea bag on fire, then watch as it does something surprising!

1 WE HAVE LIFT OFF!

It's tea time! But you won't be drinking tea in this experiment. You're going to learn about something a tea bag can do (other than hold tea, of course).

WHAT YOU NEED:

FROM THE KIT:

- ☐ Matches
- ☐ Tea bag

OTHER ITEMS:

- ☐ Scissors

WARNING: **Be careful with fire and flame.** Don't use in windy areas or near objects that can catch fire. **An adult should help with steps that need scissors.** Always cut away from your body.

WHAT TO DO:

STEP 1 Open the tea bag wrapper and take out the tea bag from inside.

STEP 2 Tear off the string.

STEP 3 Use scissors (or have your teacher use scissors) to snip off the top part where the staple and string are.

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b. After you lit the tea bag, did it have motion?

If so, what direction was it? _____

c. What was the force that pushed or pulled the tea bag upward?

Circle your answer.

A) air pressure

B) a hand

C) gravity

D) wind

Why do you think that?_____

2. Write a short story about a rocket that goes into space. Use these words in your story: motion, force, direction, pressure, and rocket. Include at least one picture to go with your story.

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Many sporting events use measures of distance, like this race at the 2004 Olympic Games.

Some objects travel a very long distance, like space rockets. Others travel a very small distance, like a pen that's marking on paper.

If there are two objects that are the same size and they are pushed with the same force, they will go the same distance. But if one is pushed with a greater force, it will go a greater distance.

An example that you can use to remember this is being pushed on a swing. If you are pushed gently, you won't go very high on the swing. But if you are pushed hard, you will soar way up high!

THINK ABOUT IT!

1. What did you do to make the stomp rocket go really high?

2. How would you stomp the rocket if you wanted it to only go a short distance?

A Need for Speed

You might have noticed that distance isn't the only way that motion can be different. Objects can also move fast or slow. **Speed** is how fast or slow an object is moving.

A car has a speedometer that tells the driver their speed, and many roads have speed limits to keep people safe.

Speed is measured in units, or labels, like miles per hour (mph) or meters per second.

SAMPLE

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Kit	SU-BLSTOF
Instructions	IN-BLSTOFS
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