

## A Story of Physical and Chemical Change

Danielle enjoyed sleeping longer on Saturday mornings. After all, she woke up at 5:30am Monday through Friday. This Saturday, her rest was cut short, for she was awakened by the sound of an electric saw. When she noticed that her husband, Jason, was not in the room, she immediately realized the source of the noise.

Because it was difficult to rest, Danielle decided to get up. She quickly made the bed, showered and got dressed. After getting dressed, Danielle went outside to see if Jason wanted breakfast. Outside, Danielle noticed that her warm breath turned into a cloud as it hit the cold air. She also noticed that that the dew on the grass had frozen.

When Danielle approached her husband, he was in the process of sawing wood. Although she was awakened by the noise, Danielle was pleased to see that her husband was making shelves for their storage closet. Not only was Jason making shelves; he was doing it in the cold. Because Jason was both cold and hungry, he became happy when Danielle told him that she was going to make breakfast.

Since Jason was working so hard, Danielle decided to make his favorite breakfast of blueberry pancakes, sausage and assorted fruit. Because the sausage was frozen, Danielle popped it into the microwave to defrost. While the sausage defrosted, Danielle prepared the pancake batter. She combined milk and pancake mix. Next she stirred in some blueberries. Once the sausage was defrosted, Danielle placed the sausage into a hot skillet. She then cut up onions and peppers, which she added to the skillet. As the sausage cooked, the aroma filled the kitchen.

While the sausage continued to cook, Danielle added butter to another pan. Within seconds the butter began to melt. Danielle then added the pancake batter to the pan. The mixture bubbled and sizzled as the liquid batter turned into a pancake. Within a few minutes both the pancakes and

the sausage finished cooking. Danielle placed three pancakes and two pieces of sausage on two different plates. She then cut pineapples, strawberries and kiwi, and added the fruit to each plate.

After enjoying the delicious breakfast that Danielle prepared, Jason returned to his project outdoors. Danielle, hurried to clean the kitchen, for she was scheduled to meet her sister, Saundra, at the hair salon.

Danielle and Saundra arrived to the salon at eleven o'clock. Both sisters decided to get their hair straightened. Because Danielle did not want to add chemicals to her hair, the hairdresser straightened her hair using a hot comb. Saundra, however, got a relaxer. The chemicals in a relaxer permanently straighten strands of hair. Saundra even decided to have her hair bleached because she wanted blonde highlights. Both Danielle and Saundra also requested for the hairdresser to curl their hair. Pleased with their hairstyles, the sisters then headed to the mall.

Danielle spent four hours shopping with her sister. By the time she returned home, Jason was no longer outside. She did, however, notice pieces of wood on the patio. Jason had painted the wood white. It needed to dry before he finished putting the shelves in the closet. Danielle also noticed the smell of burning wood. When she entered the house, Danielle saw Jason sitting near the fireplace reading a book. Jason was happy to see Danielle. He especially liked her new hairstyle. To Danielle's surprise, Jason's hair was also different. He had gone to the barber and received a haircut.

Happy to be in each other's company, Danielle and Jason decided to watch a movie. Jason added wood to the fireplace, while Danielle loaded the DVD player. They then spent the rest of the evening watching their favorite episodes of *Bill Nye the Science Guy*.

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

### A Story of Physical and Chemical Change

#### Directions

- Read the attached story.
- After reading the story. Re-read the story and perform the following tasks.  
Assign and use a different color for each task.

Assigned Color	Task
	Underline physical changes.
	Underline chemical changes.
	Circle state changes.

Use examples from the story to respond the following items.

1. Describe one physical change that occurs. Explain how this occurrence is an example of a physical change.

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2. Describe one instance of a chemical change. Explain how this occurrence exemplifies a chemical change.

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3. Describe an occurrence in which a substance or material undergoes both a physical and chemical change.

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