

Name: \_\_\_\_\_

# Content Check

**When there is a chemical reaction with iron and oxygen, they react to form a new substance plus heat energy. Using this information, read and answer the questions below.**

1. Choose the correct word for the following sentence.

a) When you put your hand on iron and oxygen that are reacting, it will feel \_\_\_\_\_.  
cold / hot

b) This happens because the reaction is transferring energy \_\_\_\_\_ the objects around it.  
to / from

2. You want to use a packet of iron and oxygen to warm up your hands, but you are afraid it might burn your hands. How would you test the packet to see how hot it gets?

3. If you use a small amount of iron and oxygen to warm up your hands by 5 degrees, describe what you would do to warm them up by 10 degrees?

# Content Check

## Teacher Key

**1. Choose the correct word for the following sentence.**

a) When you put your hand on iron and oxygen that are reacting, it will feel \_\_\_\_\_ hot \_\_\_\_\_.

b) This happens because the reaction is transferring energy \_\_\_\_\_ to \_\_\_\_\_ the objects around it.

**2. You want to use a packet of iron and oxygen to warm up your hands, but you are afraid it might burn your hands. How would you test the packet to see how hot it gets?**

Use a thermometer.

**3. If you use a small amount of iron and oxygen to warm up your hands by 5 degrees, describe what you would do to warm them up by 10 degrees?**

Use more iron and oxygen so more heat transfers to your skin.