

Name: _____

Date: _____

Chemical vs. Physical Changes Warm-Up

Day 1

Describe each of the following key vocabulary terms using your own words.

Chemical Change - _____

Physical Change - _____

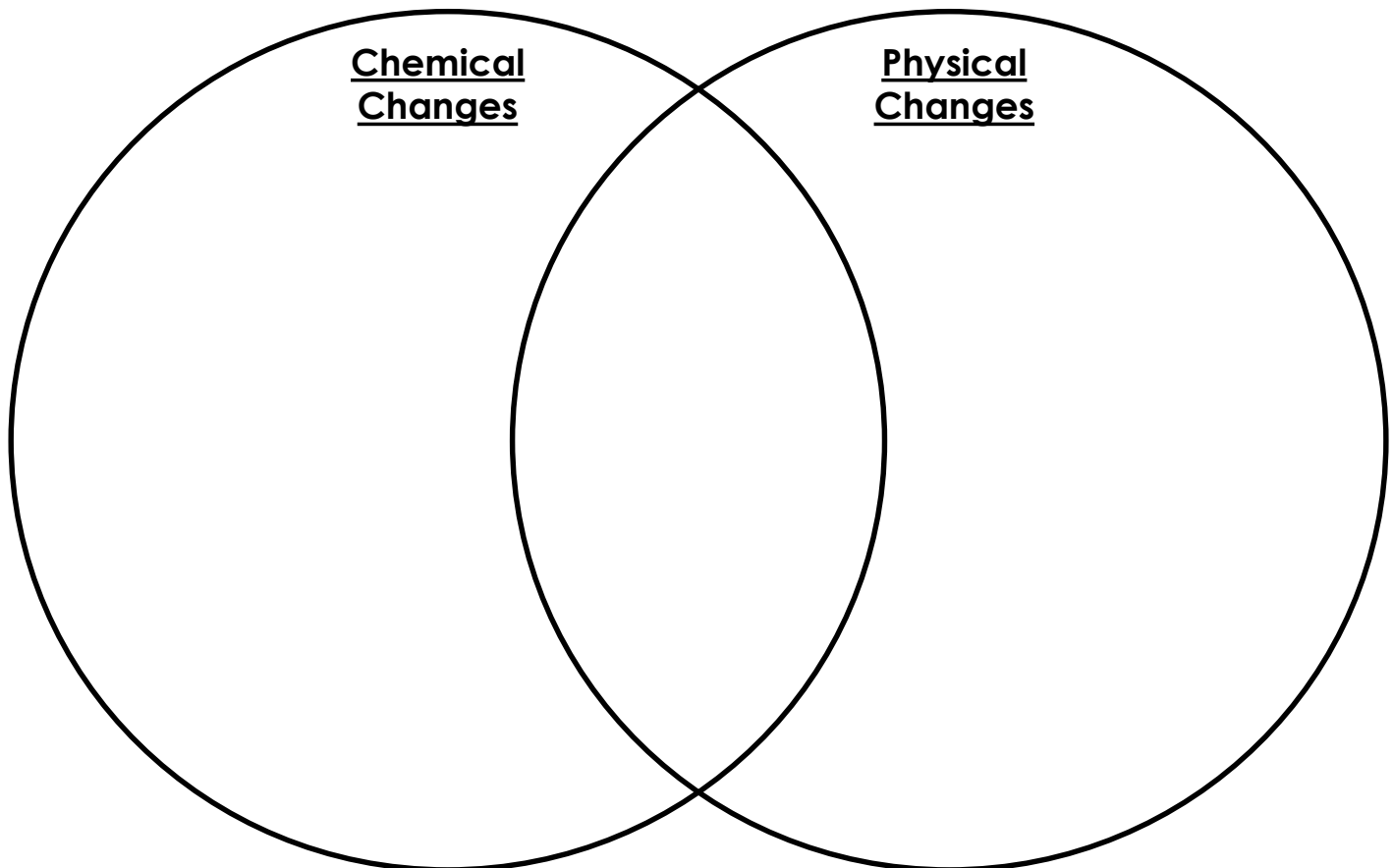
Chemical Reaction - _____

Endothermic Reaction - _____

Exothermic Reaction - _____

Day 2

Compare and contrast Chemical and Physical Changes using the Venn Diagram below.



Day 3

Write "C" for Chemical change and "P" for Physical change for the following examples.

1. ____ Cutting paper
2. ____ Boiling water
3. ____ Digesting food
4. ____ Chopping wood
5. ____ Metal rusting
6. ____ Baking a cake
7. ____ Melting ice
8. ____ Rotting bananas
9. ____ Frying an egg
10. ____ Coloring on paper
11. ____ Wax melting
12. ____ Crushing a can
13. ____ Milk souring
14. ____ Candle burning
15. ____ Breaking glass

Day 4

Using the chart below, fill in 5 pieces of evidence that suggest a chemical reaction has occurred. Be sure to list an example for each piece of evidence.

Evidence of a Chemical Reaction	Examples

Day 5

Circle the correct answer for questions 1-4.

1. A student noticed a yellow, solid substance was formed when mixing two clear liquids during a lab. What term describes this yellow, solid substance?
A. physical change
B. exothermic reaction
C. endothermic reaction
D. precipitate
2. A chemical reaction takes place to allow hand warmers to give off heat. This is an example of a(n) _____.
A. physical change
B. exothermic reaction
C. endothermic reaction
D. precipitate
3. A chemical reaction takes place to allow instant cold packs to absorb energy. This is an example of a(n) _____.
A. physical change
B. exothermic reaction
C. endothermic reaction
D. precipitate
4. A student mixed sugar and water during a lab until the sugar dissolved. This is an example of a(n) _____.
A. physical change
B. exothermic reaction
C. endothermic reaction
D. precipitate

Name: _____

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Chemical vs. Physical Changes

Warm-Up

Day 1

Describe each of the following key vocabulary terms using your own words.

Chemical Change - results in the formation of new chemical substances

Physical Change - the form of matter is altered but one substance is not transformed into another

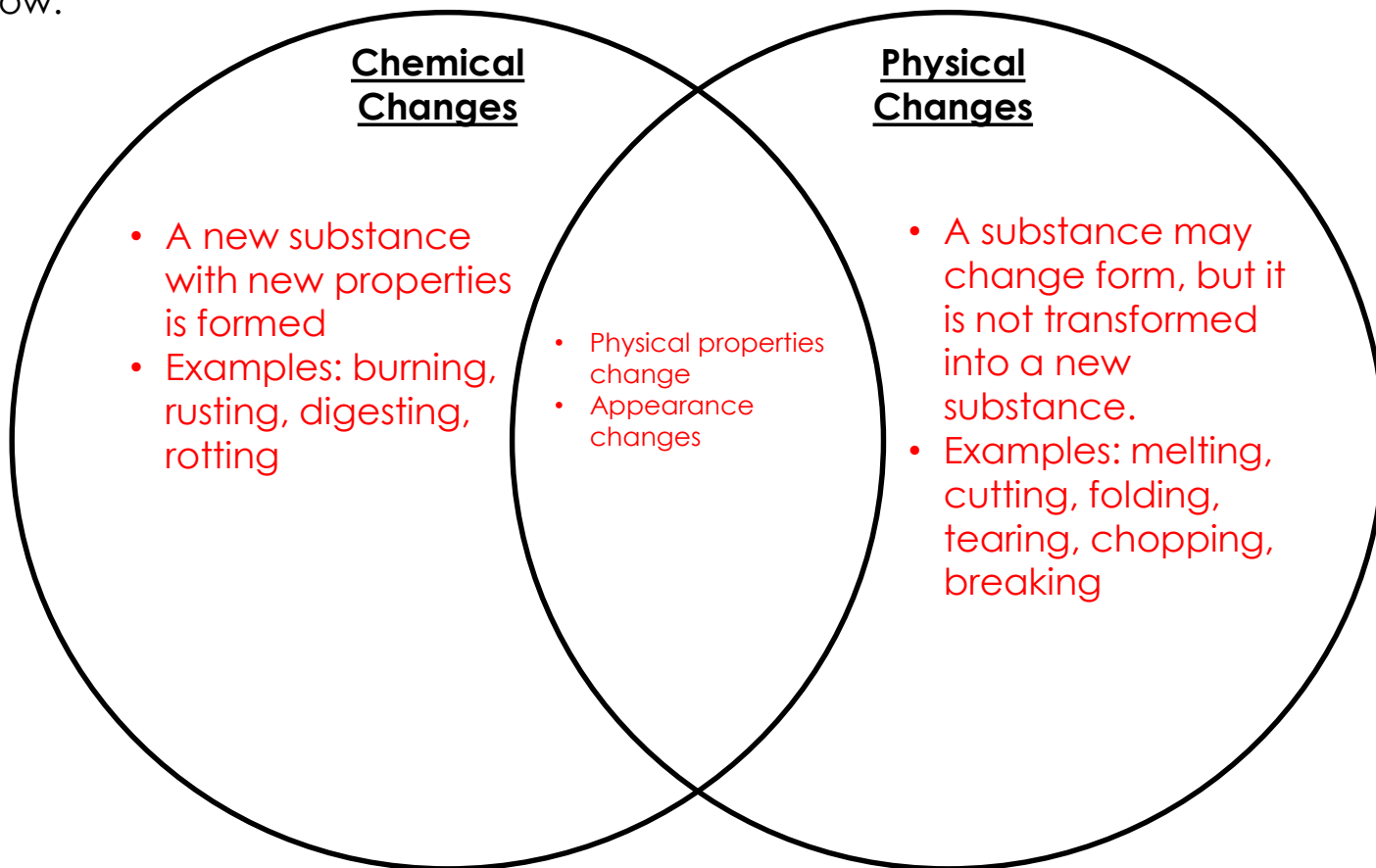
Chemical Reaction - process in which one or more substance is chemically changed into one or more new substances

Endothermic Reaction - a chemical reaction accompanied by the absorption of heat

Exothermic Reaction - a chemical reaction accompanied by the release of heat

Day 2

Compare and contrast Chemical and Physical Changes using the Venn Diagram below.



Day 3

Write "C" for Chemical change and "P" for Physical change for the following examples.

1. P Cutting paper
2. P Boiling water
3. C Digesting food
4. P Chopping wood
5. C Metal rusting
6. C Baking a cake
7. P Melting ice
8. C Rotting bananas
9. C Frying an egg
10. P Coloring on paper
11. P Wax melting
12. P Crushing a can
13. C Milk souring
14. C Candle burning
15. P Breaking glass

Day 4

Using the chart below, fill in 5 pieces of evidence that suggest a chemical reaction has occurred. Be sure to list an example for each piece of evidence.

Evidence of a Chemical Reaction	Examples
Unexpected change in color	Mixing two clear liquids and substance turns a certain color.
Unexpected change in temperature	Epsom salt and water-temperature decreases
Formation of a precipitate	Mixing two liquids and a solid is formed
Production of gas, bubbles, or odor	Mixing baking soda and vinegar
Production of heat or light	Glow stick

Day 5

Circle the correct answer for questions 1-4.

1. A student noticed a yellow, solid substance was formed when mixing two clear liquids during a lab. What term describes this yellow, solid substance?

- A. physical change
- B. exothermic reaction
- C. endothermic reaction
- D. precipitate

2. A chemical reaction takes place to allow hand warmers to give off heat. This is an example of a(n) _____.

- A. physical change
- B. exothermic reaction
- C. endothermic reaction
- D. precipitate

3. A chemical reaction takes place to allow instant cold packs to absorb energy. This is an example of a(n) _____.

- A. physical change
- B. exothermic reaction
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4. A student mixed sugar and water during a lab until the sugar dissolved. This is an example of a(n) _____.

- A. physical change
- B. exothermic reaction
- C. endothermic reaction
- D. precipitate