



Name:.....

Class:.....

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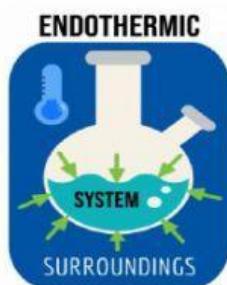
## Endothermic and Exothermic Reactions

(ปฏิกิริยาดูดความร้อนและ Haley ความร้อน)

### Endothermic Reaction (ปฏิกิริยาดูดความร้อน)



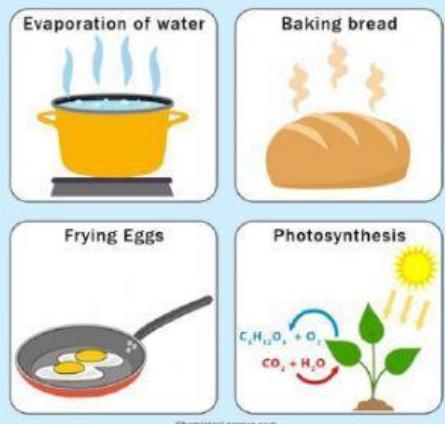
- a chemical reaction that absorbs heat (ดูดซับความร้อน)
- cools the surrounding (ทำให้สภาพแวดล้อมเย็นลง)
- lowers temperature of surroundings (ลดอุณหภูมิของสภาพแวดล้อม)



### Examples of Endothermic Reactions

1. Photosynthesis – Plants absorb heat energy
2. Cooking an Egg – Heat from the pan cooks the egg
3. Baking of bread
4. Boiling of water

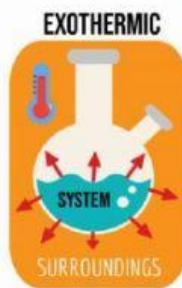
### Endothermic Reaction Examples



## Exothermic Reaction (ปฏิกิริยาเคมีความร้อน)



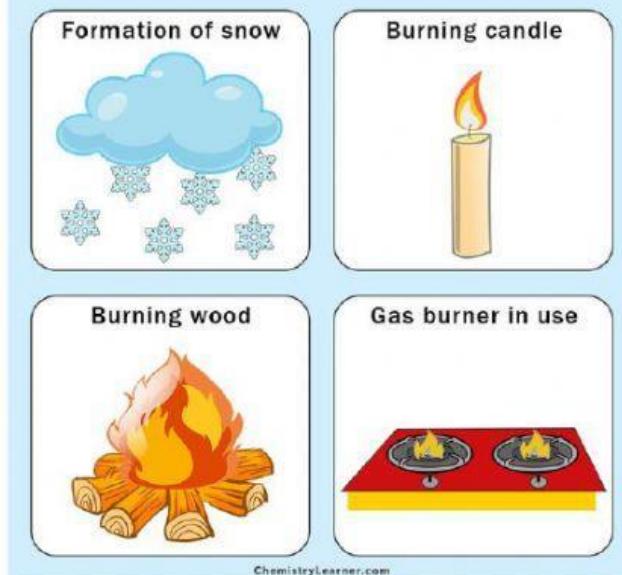
- a chemical reaction that releases heat (ปล่อยความร้อน)
- warms the surrounding (ให้ความอบอุ่นกับสิ่งแวดล้อม)
- lowers temperature of surroundings (ทำให้อุณหภูมิของสิ่งแวดล้อมสูงขึ้น)



### Examples of Exothermic Reactions

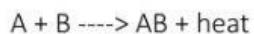
1. Formation of snow
2. Burning of candle
3. Burning of wood
4. Burning of gas
5. Rusting of nail - การเกิดสนิมของเหล็บ

### Exothermic Reaction Examples



**Determine if the reaction is endothermic or exothermic.  
Tick the correct answer.**

1. When two chemicals are mixed the temperature of the mixture increases,



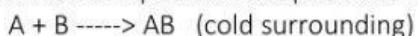
a. endothermic reaction      b. exothermic reaction

2. A candle burns brightly and releases heat.

a. endothermic reaction      b. exothermic reaction

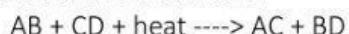


3. When two chemicals are mixed their temperature drops or decreases.



a. endothermic reaction      b. exothermic reaction

4. Heat is needed to react two chemicals.



a. endothermic reaction      b. exothermic reaction

5. Plants need light to make their food.



a. endothermic reaction      b. exothermic reaction

6. Your car burns gasoline as you drive from home to school

a. endothermic reaction      b. exothermic reaction

7. Jerry is baking homemade bread in the oven.

a. endothermic reaction      b. exothermic reaction

