



Name:.....

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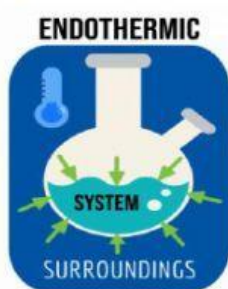
Endothermic and Exothermic Reactions

(ปฏิกิริยาดูดความร้อนและคายความร้อน)

Endothermic Reaction (ปฏิกิริยาดูดความร้อน)

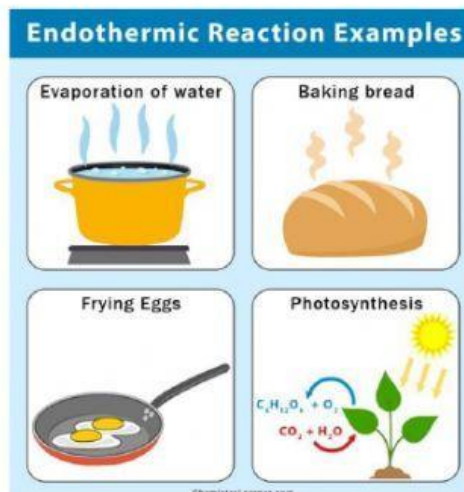


- a chemical reaction that absorbs heat (ดูดซับความร้อน)
- cools the surrounding (ทำให้สภาพแวดล้อมเย็นลง)
- lowers temperature of surroundings (ลดอุณหภูมิของสภาพแวดล้อม)



Examples of Endothermic Reactions

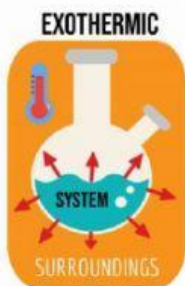
1. Photosynthesis – Plants absorb heat energy
2. Cooking an Egg – Heat from the pan cooks the egg
3. Baking of bread
4. Boiling of water



Exothermic Reaction (ปฏิกิริยาคายความร้อน)



- 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 - การเกิดสนิมของเหล็ก

Exothermic Reaction Examples	
Formation of snow 	Burning candle 
Burning wood 	Gas burner in use 

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8. The ice melts in your glass of water.
 - a. endothermic reaction
 - b. exothermic reaction
9. Sodium and chlorine combine in an explosive reaction to form table salt.
 - a. endothermic reaction
 - b. exothermic reaction
10. Barry lights his candles to get his hot air balloon to fly.
 - a. endothermic reaction
 - b. exothermic reaction
11. Water freezes on the pavement and the roads become icy.
 - a. endothermic reaction
 - b. exothermic reaction
12. Mom puts a pot of water on the stove and the water begins to boil.
 - a. endothermic reaction
 - b. exothermic reaction
13. Water condenses on the side of your glass of cold lemonade.
 - a. endothermic reaction
 - b. exothermic reaction
14. A glass of water left out overnight evaporates.
 - a. endothermic reaction
 - b. exothermic reaction
15. A plant carries out photosynthesis.
 - a. endothermic reaction
 - b. exothermic reaction
16. A tree grows.
 - a. endothermic reaction
 - b. exothermic reaction
17. The snow melted when we finally had a warm day last week.
 - a. endothermic reaction
 - b. exothermic reaction
18. Corey adds hydrochloric acid slowly to water and notices that the flask feels hot.
 - a. endothermic reaction
 - b. exothermic reaction
19. The trainer shakes a cold pack to put it on an injured student's knee.
 - a. endothermic reaction
 - b. exothermic reaction
20. An egg is cooked in a frying pan.
 - a. endothermic reaction
 - b. exothermic reaction