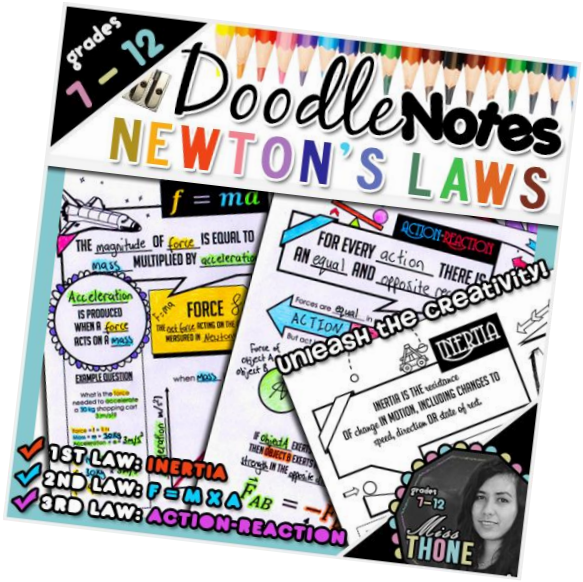
Doodle Notes

Endo/Exothermic Reactions

By Jadyn Thone



1 **Resource Explanation**

A brief description of the resource and teacher preparation instructions, including suggestions for classroom use.

2 **Doodle Notes Graphic Organizer**

3 levels of the graphic organizer, completed for differentiation (fully completed, fill-in-the-blanks and "empty") + extra note-taking pages!

3 **Teacher "Answer Key"**

Stuck for design ideas? Show students the answer key first (only quickly), so they can gain an idea of what the finished product will look like.

Thank you!

I hope this resource is useful in your classroom. Please don't hesitate to email me with questions at jadynthone@outlook.com

Doodle Notes
Resource Explanation

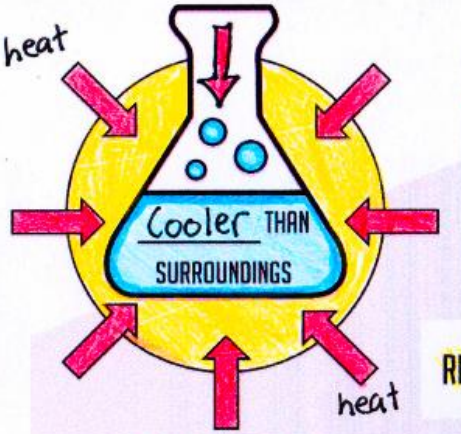
By Jadyn Thone

Description

This is a Newton's First Law of Motion graphic organizer that allows students to compile their knowledge and understanding in a doodle notes style! Give your students a welcome change of pace by leading them through the ideas and concepts behind Newton's First Law of Motion (Inertia) and then gift them with time to doodle and make those connections! This graphic organizer would be great for an interactive notebook, too!

Teacher Preparation Instructions

Simply print off as many copies as necessary, provide students with colored pencils, textas or crayons and watch them engage the creative side of their brain! This single-sided sheet doodle notes could be used as an introduction to Newton's First Law of Motion or as independent/group review of inertia/friction/gravity/Newton's Laws.

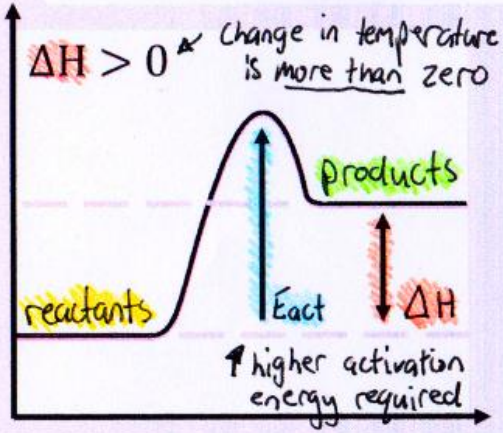


HEAT absorbed, CHEMICAL BONDS broken

SOLID → LIQUID → GAS

REACTANTS + heat → PRODUCTS

ENDOTHERMIC REACTIONS take in (OR absorb) ENERGY FROM THE SURROUNDINGS. THE REACTION IS cold.



IN AN endothermic reaction, THE ENERGY increases OVER TIME AS HEAT IS absorbed INTO THE SYSTEM. THEREFORE, THE OVERALL TEMPERATURE DECREASES HEAT ENERGY INCREASES

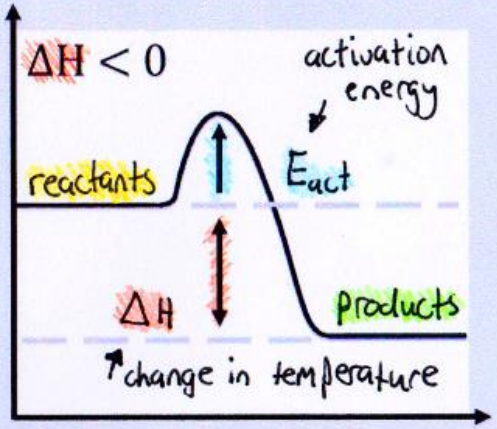
ENDOTHERMIC

in, absorb | heat energy

out, release | heat energy

EXOTHERMIC

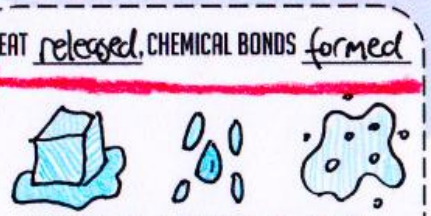
IN AN exothermic reaction, THE ENERGY decreases OVER TIME AS HEAT IS released FROM THE SYSTEM. THEREFORE, THE OVERALL TEMPERATURE DECREASES HEAT ENERGY INCREASES



EXOTHERMIC REACTIONS give out (OR release) ENERGY TO THE SURROUNDINGS. THE REACTION IS hot.

REACTANTS → PRODUCTS + heat

HEAT released, CHEMICAL BONDS formed



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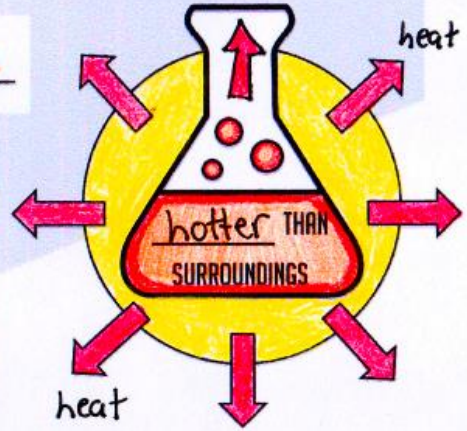

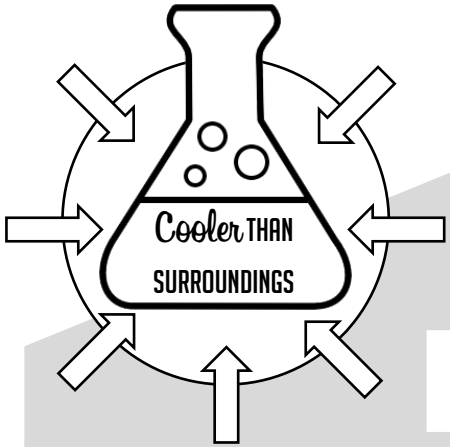

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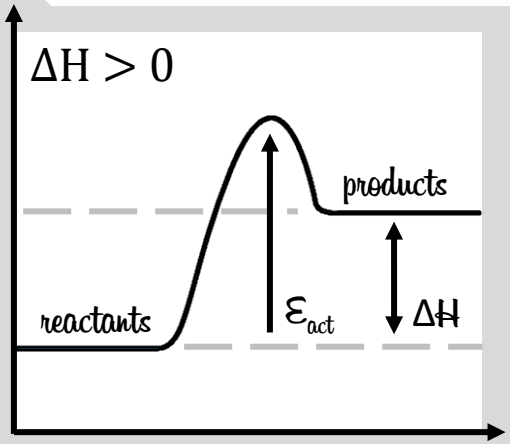

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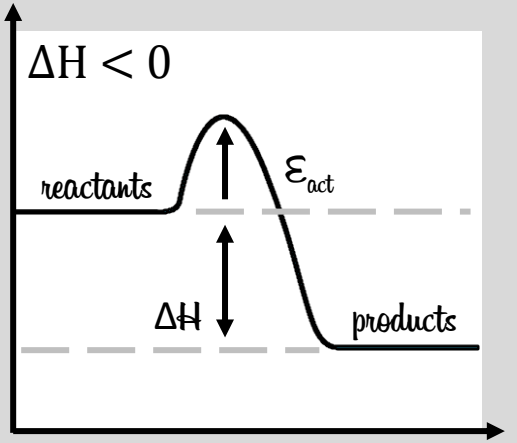

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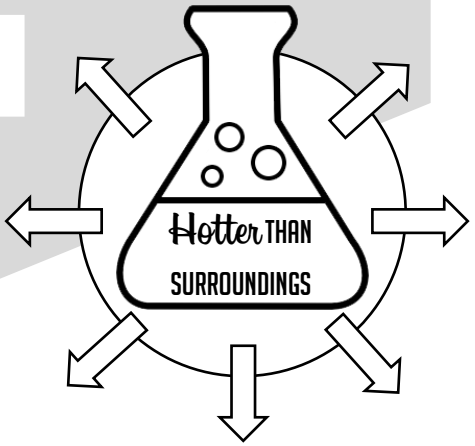

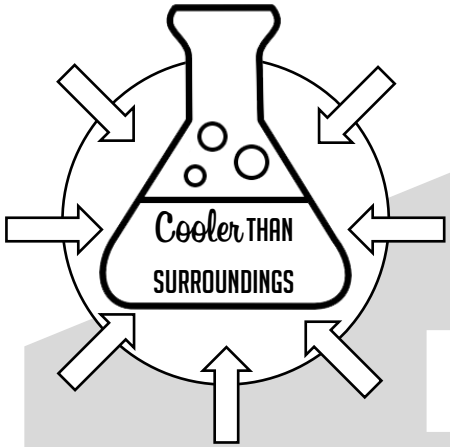

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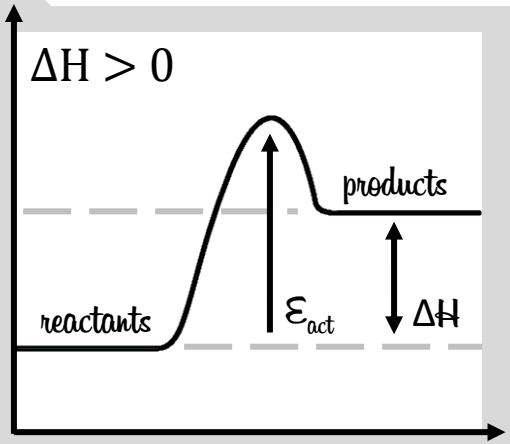

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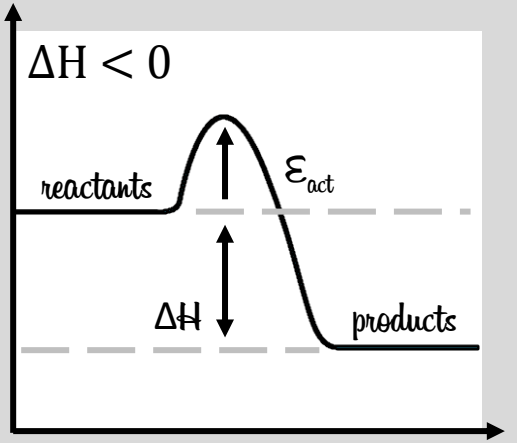

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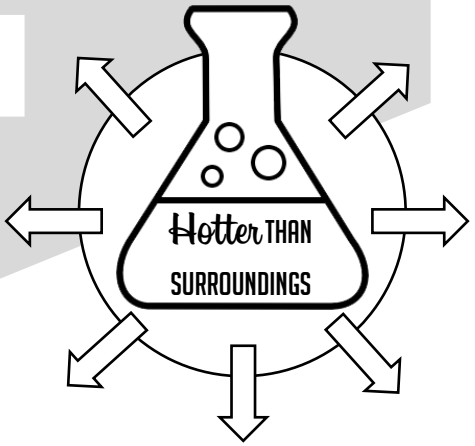

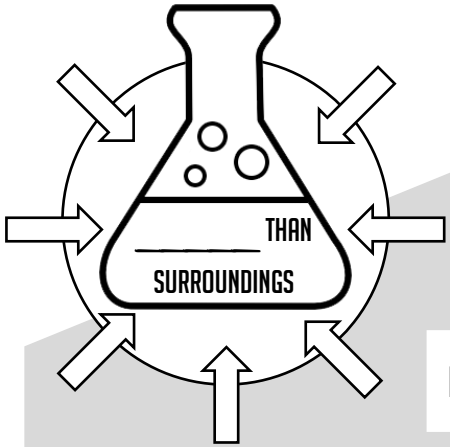

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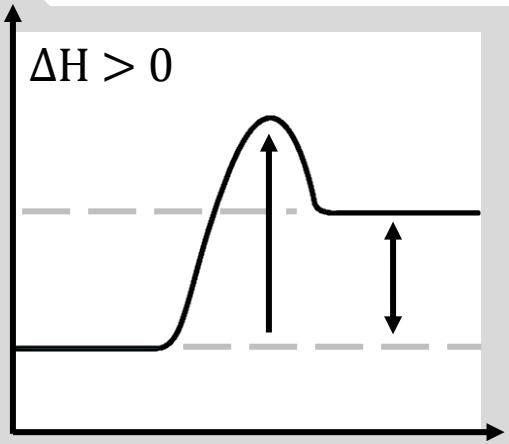

IN AN _____ _____, THE ENERGY _____ OVER TIME AS HEAT IS _____ INTO THE SYSTEM. THEREFORE, THE OVERALL _____ INCREASES.

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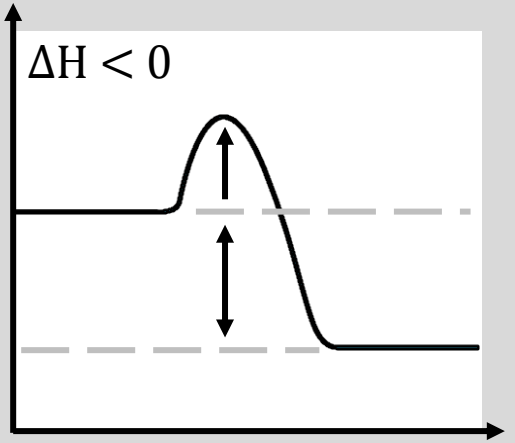

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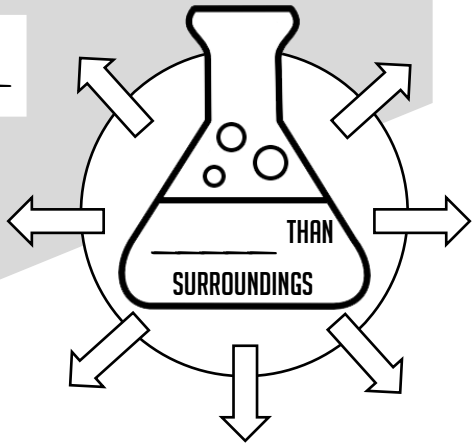

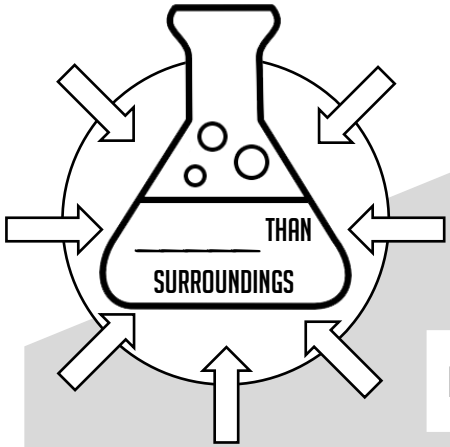

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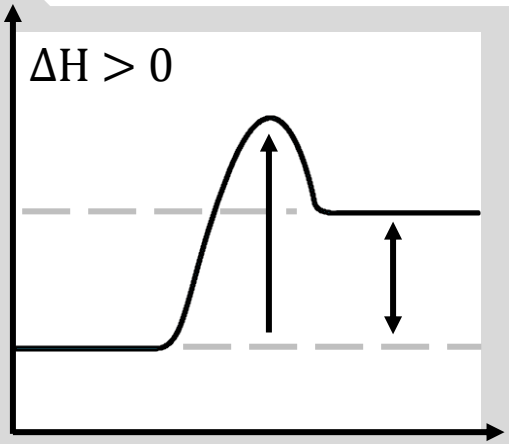

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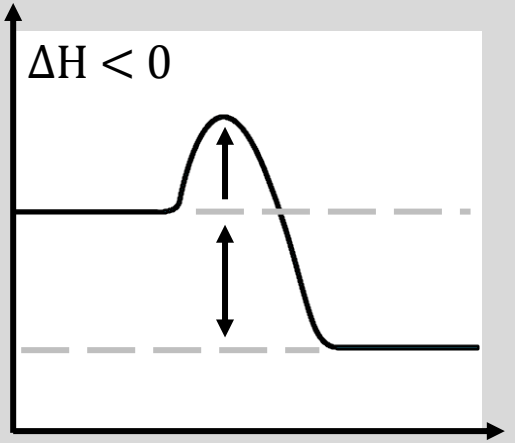

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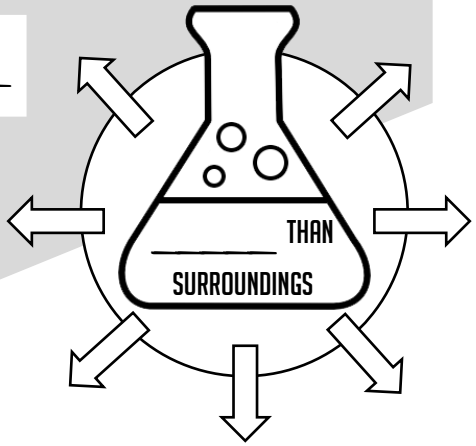

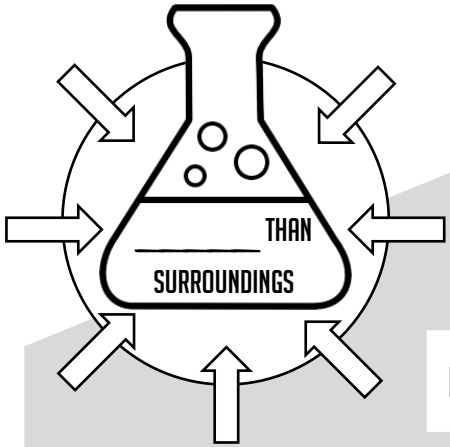

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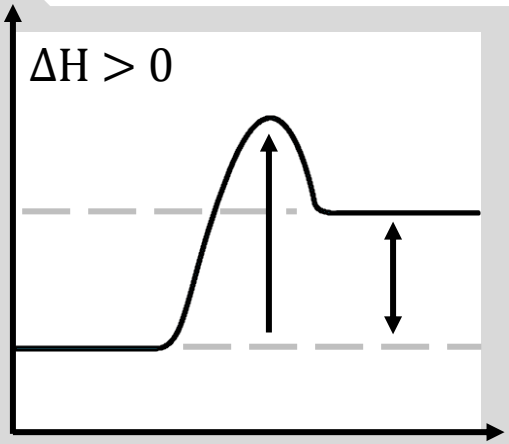

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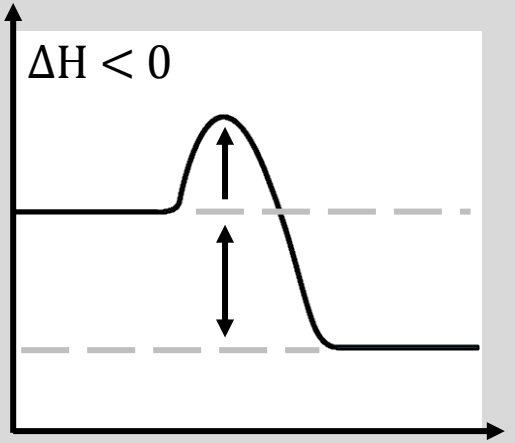

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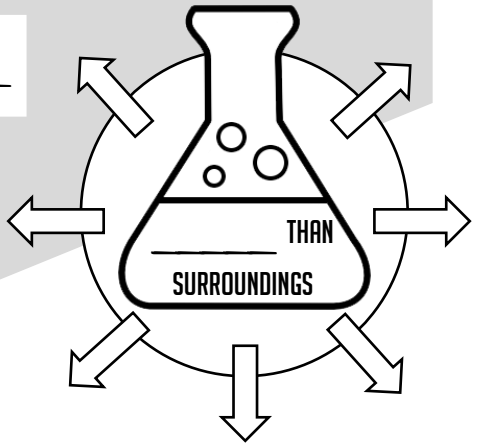

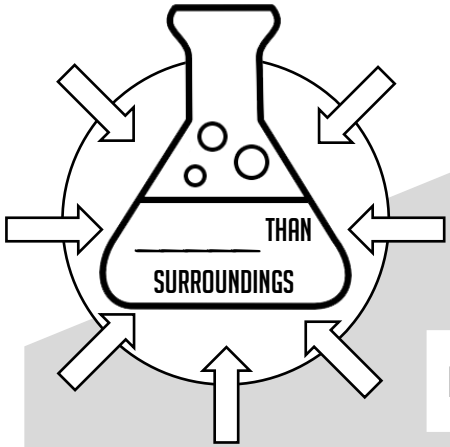

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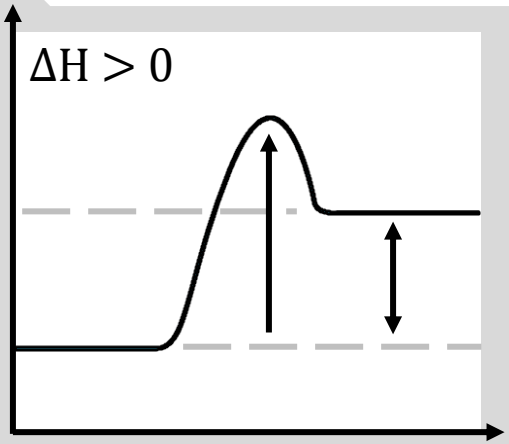

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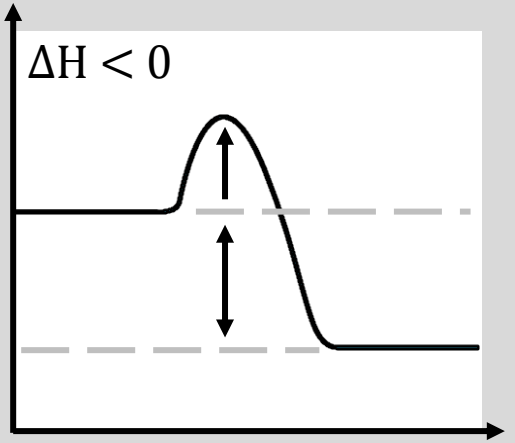

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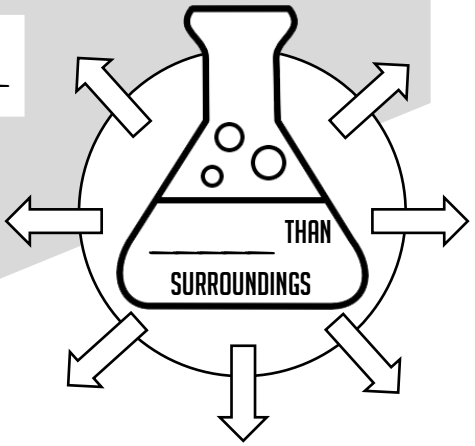

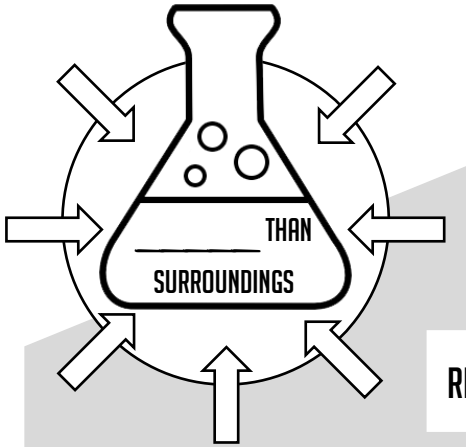

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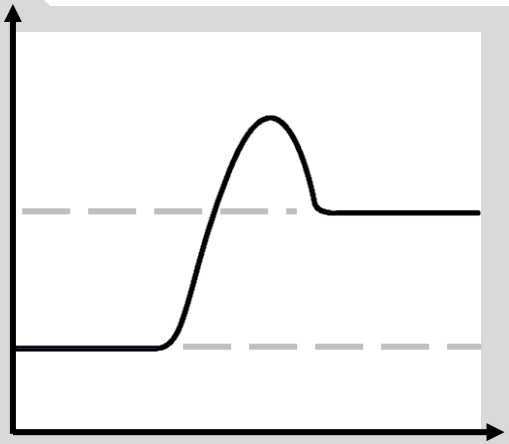

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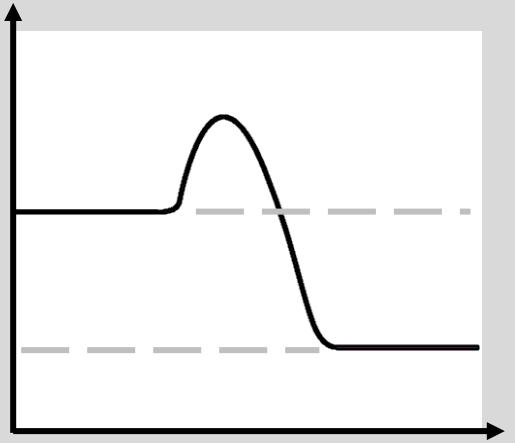

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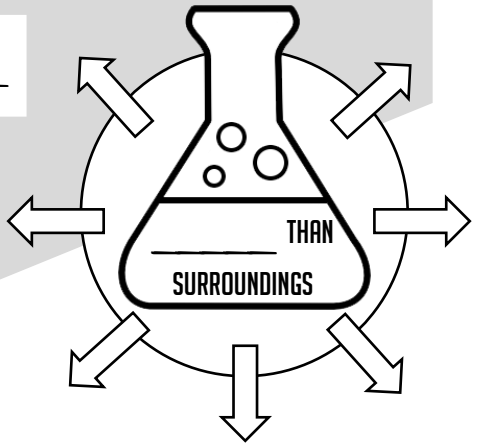

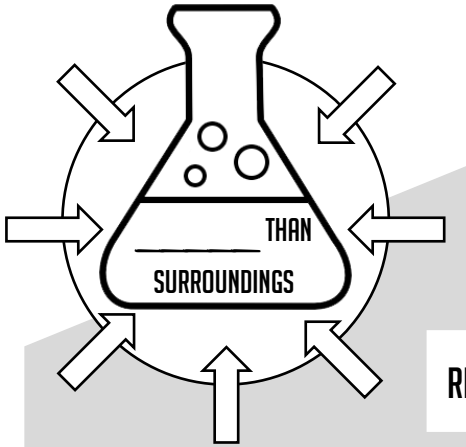

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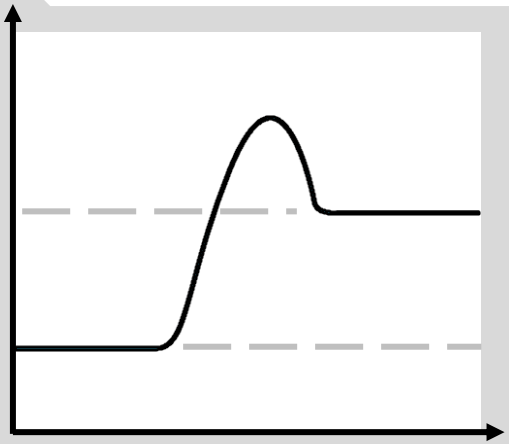

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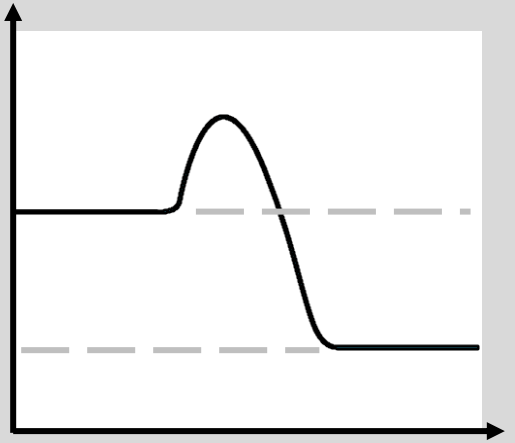

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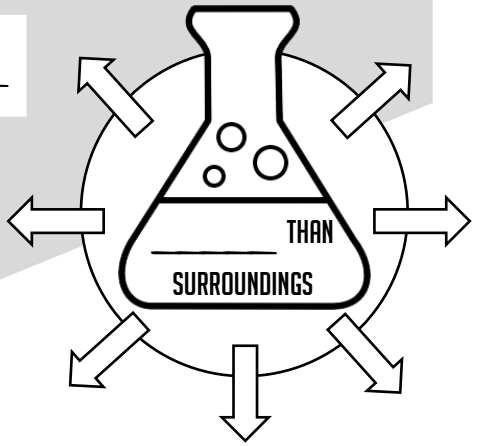

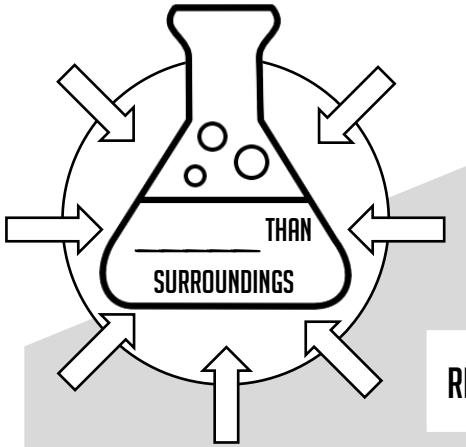

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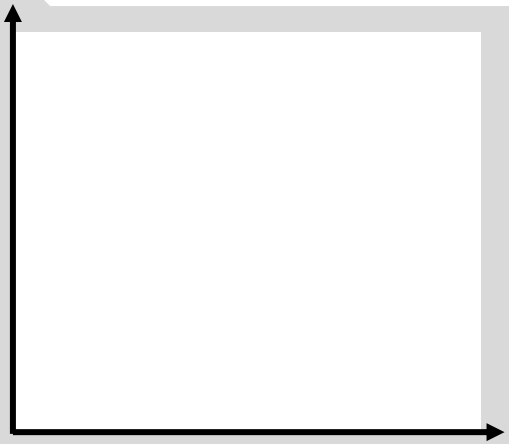

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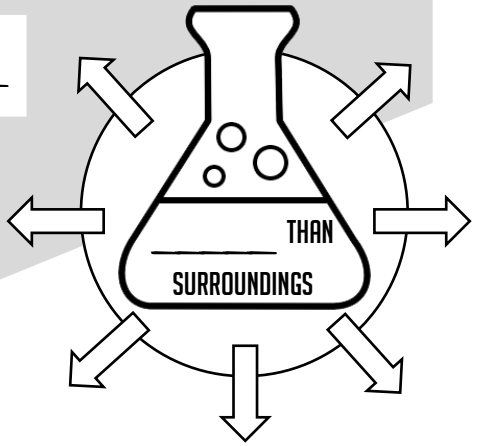

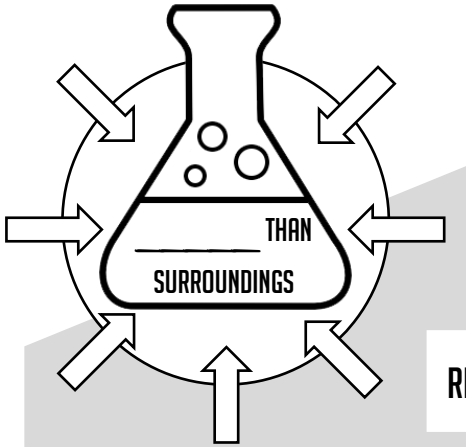

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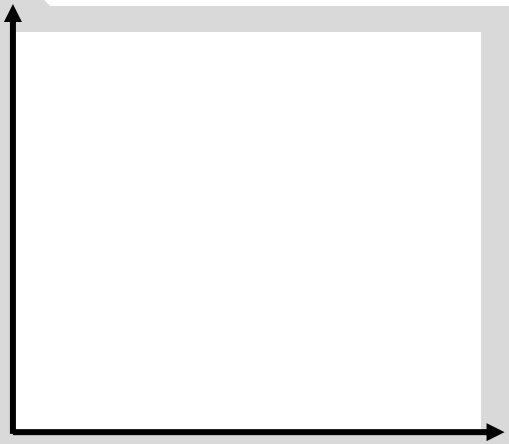
ENERGY FROM THE SURROUNDINGS. THE REACTION IS _____.



IN AN _____ _____, THE ENERGY _____ OVER TIME AS HEAT IS _____ INTO THE SYSTEM. THEREFORE, THE OVERALL _____ DECREASES.

ENDOTHERMIC

EXOTHERMIC

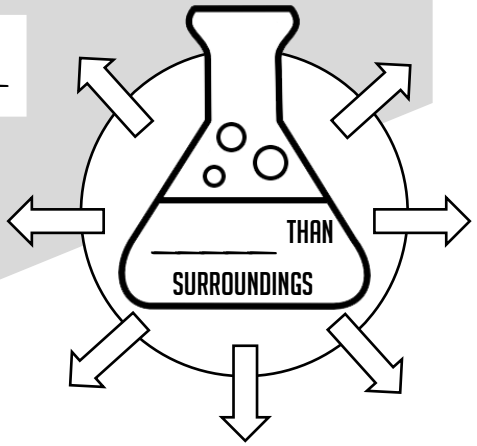
IN AN _____ _____, THE ENERGY _____ OVER TIME AS HEAT IS _____ FROM THE SYSTEM. THEREFORE, THE OVERALL _____ INCREASES.

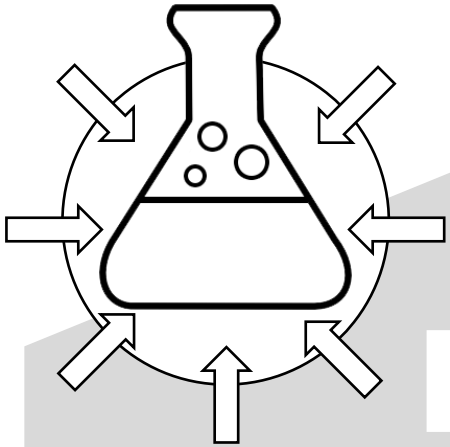
EXOTHERMIC REACTIONS _____ (OR _____)
ENERGY TO THE SURROUNDINGS. THE REACTION IS _____.

REACTANTS PRODUCTS _____

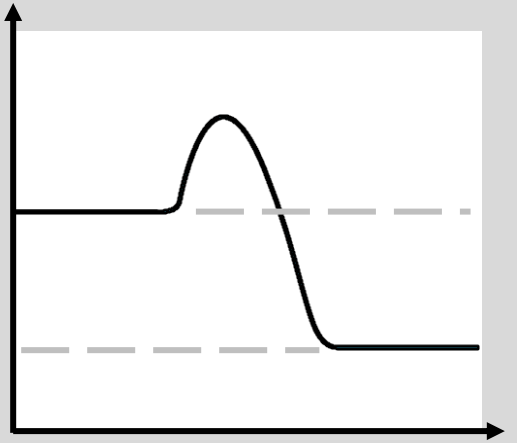
HEAT _____, CHEMICAL BONDS _____

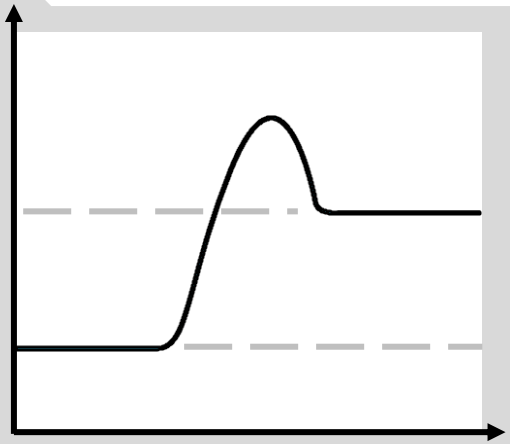
SOLID LIQUID GAS



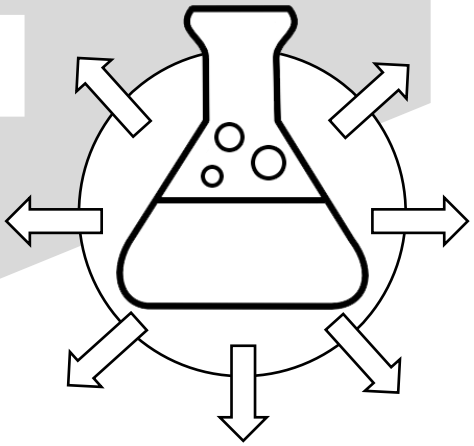


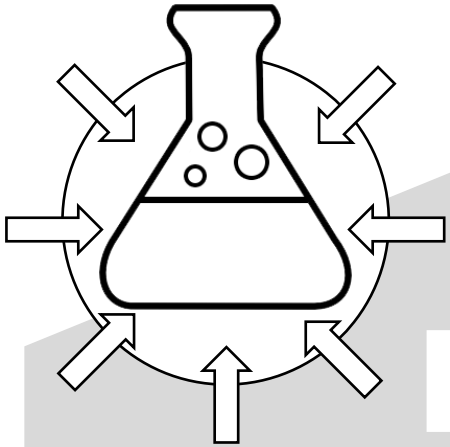
EXOTHERMIC



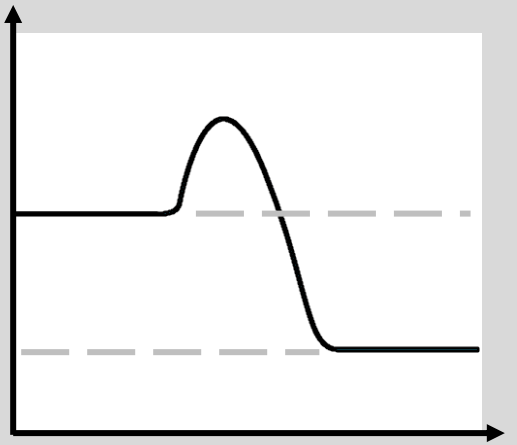


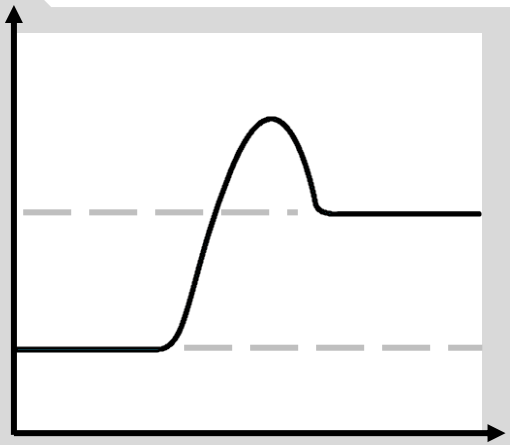
ENDOTHERMIC



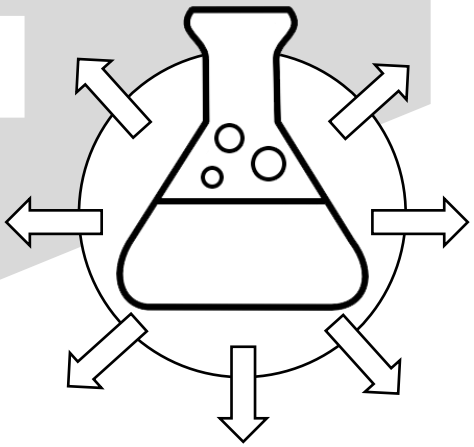


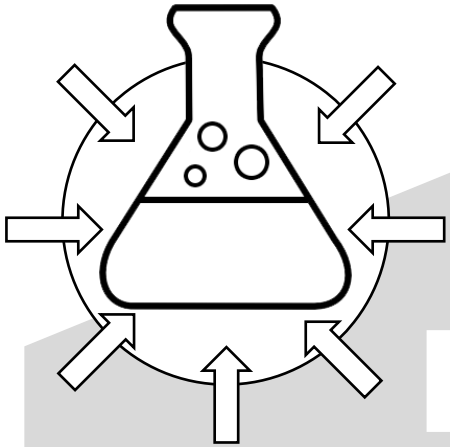
EXOTHERMIC





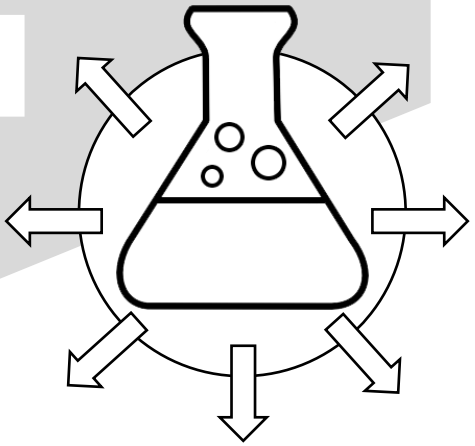
ENDOTHERMIC

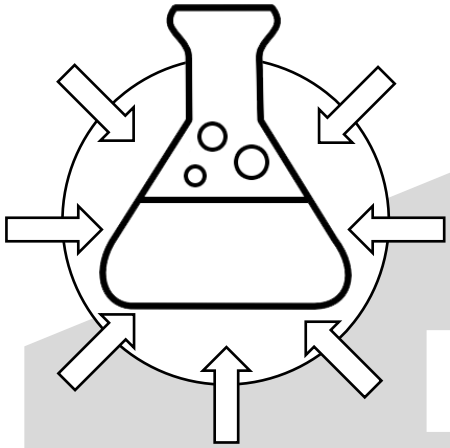




EXOTHERMIC

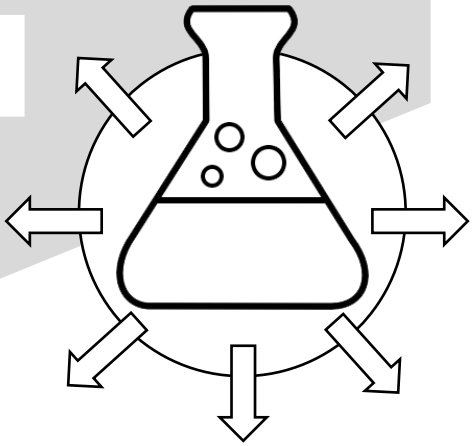
ENDOTHERMIC





EXOTHERMIC

ENDOTHERMIC



Jadyn Thone

Who Am I?

My name is **Jadyn Thone** and I am an Australian Secondary teacher of Science, Technology, Math and English. During my time as a teacher I have taught many age groups of varying skill and ability. I found that I needed to create resources that suited my students. All my resources are tried and tested in authentic school settings. I upload new materials all the time, so don't forget to check back in! All the best!

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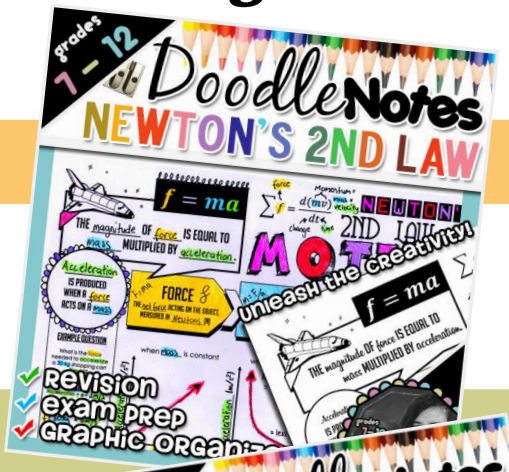

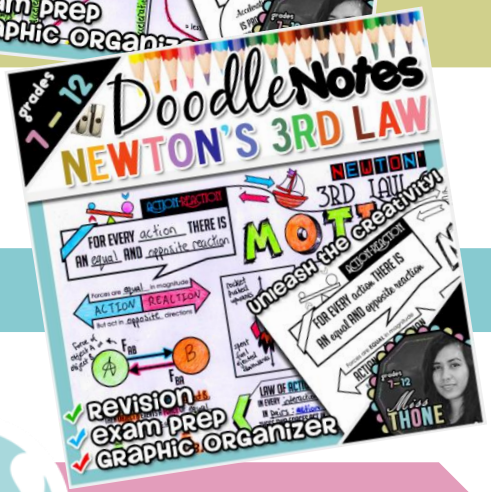

Science Technology English Math

RESOURCES FOR MIDDLE & HIGH SCHOOL