

# Effects of Heat

## DIGITAL SUPPLEMENT

**For  
Special  
Ed**

Raises the temperature

Place the pictures in the box to show examples of the temperature rising.

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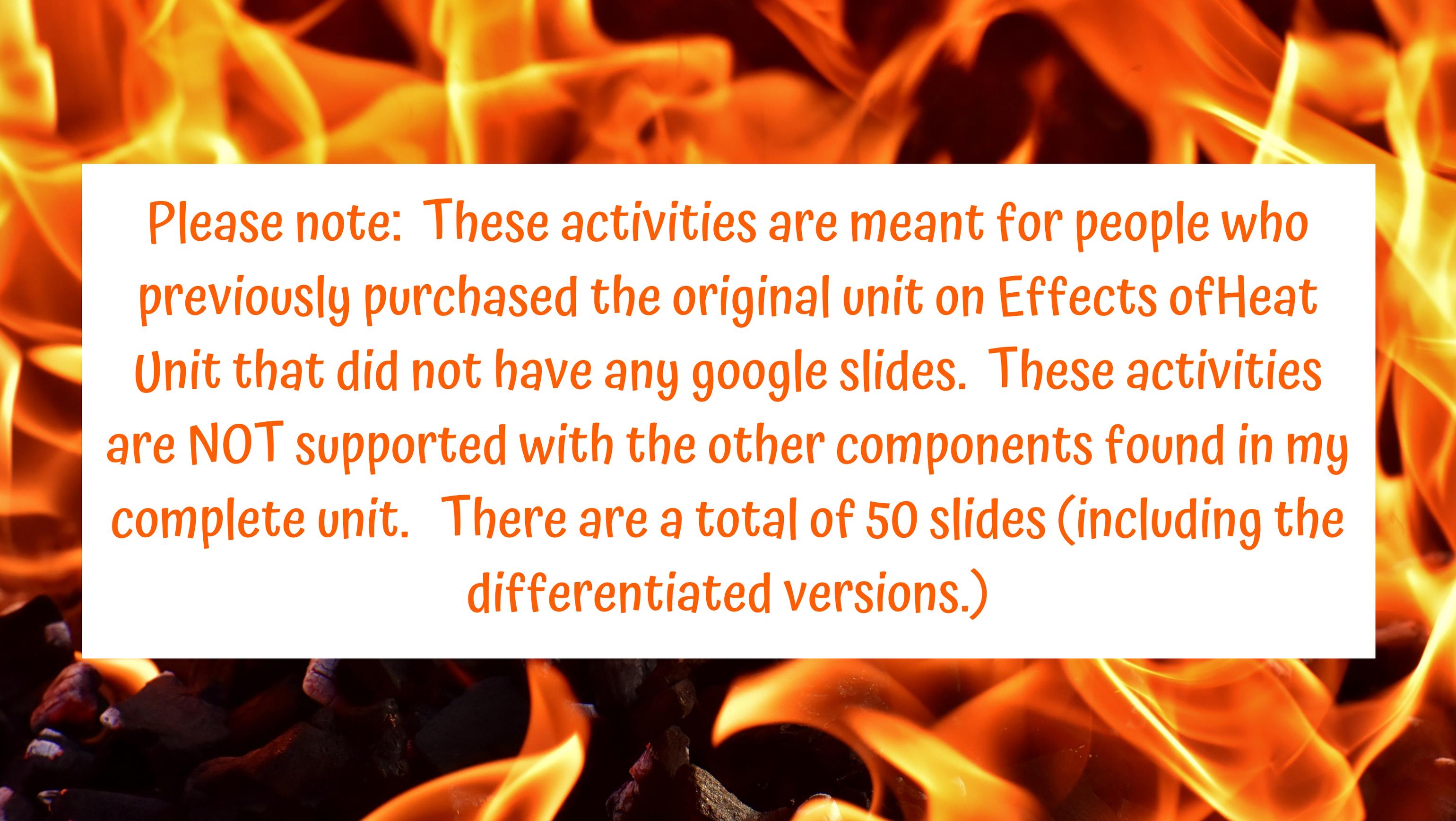
**with 50 Google Slides**

Special Needs for Special Kids





*This unit was created with this guy in mind. He has autism and an intellectual disability. He is a non-reader, loves to rip any worksheet that comes his way AND he is able to do this unit. He is my tester!!*



*Please note: These activities are meant for people who previously purchased the original unit on Effects of Heat Unit that did not have any google slides. These activities are NOT supported with the other components found in my complete unit. There are a total of 50 slides (including the differentiated versions.)*

Watch the  
movie on  
sound energy



In general, instruments that are larger make sounds with  
lower frequency or pitch.

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There is an mp4 version  
of the book which you can  
play in google or assign  
for students to watch and  
listen to in google  
classroom.

**heat**

Energy that is transferred from one object to another than can cause the object to change.



**physical change**

Change in the shape, size or color of an object that does **NOT** change the molecules in the object.



**molecules**

Make up objects and move faster and farther apart when heat is added.



**chemical change**

Change that results in a new substance being formed.



**physical property**

Things that describe how an object looks and feels.

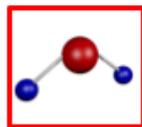


**energy**

Ability to do work. Heat is a form of energy.

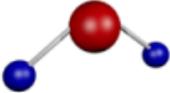


Match each picture with the definition above.



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There are vocabulary drag and drop activities to get more practice with some of the new words in this unit.

heat 	physical change 	molecules 
chemical change 	physical property 	energy 

Match each definition with the picture above.

Change that results in a new substance being formed.	Energy that is transferred from one object to another that can cause the object to change.	Change in the shape, size or color of an object that does <b>NOT</b> change the molecules in the object.	Make up objects and move faster and farther apart when heat is added.
Things that describe how an object looks and feels.	Ability to do work. Heat is a form of energy.		

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Students match either pictures or definitions. The differentiated versions have color coding added.

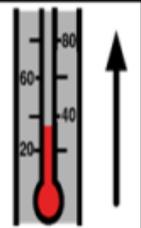
Place the pictures in the circle map **ONLY IF** they are about heat energy.

physical changes	chemical changes	spill	expand	bored
transfers	lion	energy	equilibrium	raise
moon	conductivity	melt	electricity	

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There is a drag and drop version of the circle map in this unit. The differentiated version (shown here) only includes correct answers.

Raises the temperature

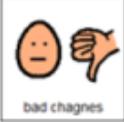


Place the pictures in the box to show examples of the temperature rising.



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There are 5 collages included that illustrate the various effects of heat. These are errorless activities.



Sort pictures into correct column depending on if you think that are a good or bad change from heat. If you are not sure, place it on the middle line.

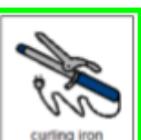
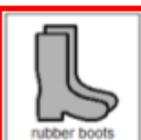
 burn	 make popcorn	 make new things	 cause a fire	 explosion	 fireworks	 melted plastic	 melted ice cream
 grill burgers	 melted ice cream	 hot air balloon	 fry an				

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There are 2 sorting activities included as a digital activity. The differentiated form uses color-coding.

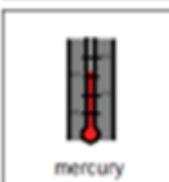
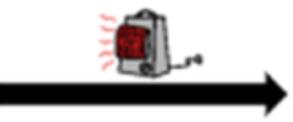


Sort pictures into correct column depending on if you think that are a good or bad conductor from heat. If you are not sure, place it on the middle line.

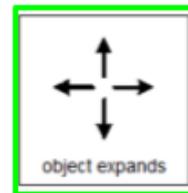
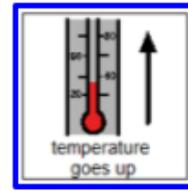
 nuts & bolts	 sleeping bag	 jacket	 wire	
 nail	 scarf	 cookie sheet		
 curling iron	 rubber boots	 foil	 blanket	

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The differentiated forms use color coding for more support.

 snowman		<input type="text"/>
 spatula		<input type="text"/>
 mercury		<input type="text"/>
 bread dough		<input type="text"/>
 boil		<input type="text"/>

Find the what the *effect* of heat would be on each object.



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There is a matching activity where students match various effects of heat. The differentiated version (shown here) uses color-coding.

## Effects of Heat Experiment #1

### Glowing Sticks and Heat

People on my team:

#### Materials needed:

2	 clear measuring cup	<input type="checkbox"/>
	 water	<input type="checkbox"/>
	 ice	<input type="checkbox"/>
2	 glow stick	<input type="checkbox"/>

Type the team members in the boxes.  
Check off each item as you collect it.



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Both experiments included in this unit have digital versions of the worksheets for students to fill out and record their results.

## Effects of Heat Experiment #1

### Glowing Sticks and Heat

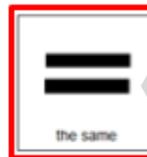
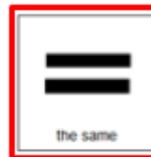
#### My hypothesis

I think the glow stick:

In mixture #1 **with the ice** will be

In mixture # 2 **without ice** will be

Choose from the pictures below to complete your hypothesis.



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Using a template,  
students will formulate  
their own hypothesis.

## Effects of Heat Experiment #1

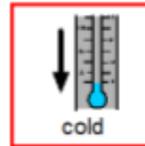
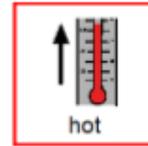
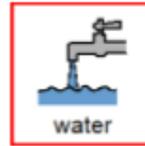
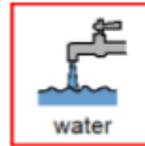
### Glowing Sticks and Heat

#### Data collection

		Temperature
Mixture #1 Contains	1	
Mixture #2 Contains	2	

Fill in the chart.

- What did each mixture contain?
- What was the temperature of each mixture?



Using a template,  
students will collect and  
record their data.

## Effects of Heat Experiment #1

### Glowing Sticks and Heat

#### What I knew

Heat can cause a chemical change to .

An example of a chemical change is a .

#### What I learned

The ice made the glow stick .

The hot water made the glow stick .

Choose from the pictures below to complete each sentence about what you saw and learned.



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Using a template, students will review what they have learned and revisit their hypothesis.

## Effects of Heat

1. Heat can  an object.

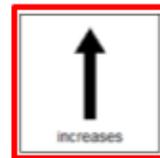
2. When you apply heat to an object, it  the temperature.

3. Some objects heat up faster than others. Those that heat up faster and easier are good .

4.  is an example of a good conductor.

5. When two objects touch each other, they transfer heat until they both have  temperature.

Use the pictures to correctly complete each sentence.



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The fill in the blank worksheets also come in digital forms. These are a great review before the assessment.

## Effects of Heat

6. Heat can cause an object to get bigger, or .

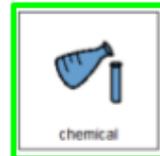
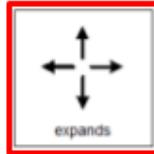
7. Mercury will go  the thermometer as it gets hotter.

8. Heat can also change the state of matter, making  turn into steam.

9. Heat can also speed up or cause  reactions to occur.

10. Heat is really just a form of .

Use the pictures to correctly complete each sentence.



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The differentiated versions use color-coding for more support. These also work great as answer keys!!

1. Heat is a form of energy that can do what to an object?



2. Things that transfer heat well are called good:



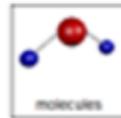
3. Ice melting in a glass of lemonade is an example of:



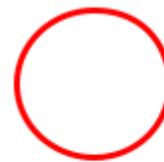
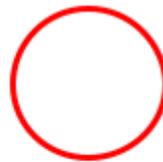
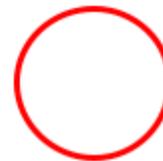
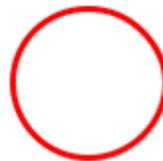
4. Heat can cause things to expand. An example of this is:



5. Objects expand because these start moving faster and can move away from each other easier.



Circle the correct answer.



The digital version of the assessment looks like this. There is a differentiated version where the correct answers are already circled with a dashed line.

6. Heat can cause a change in the state of matter of an object. An example of this is when:



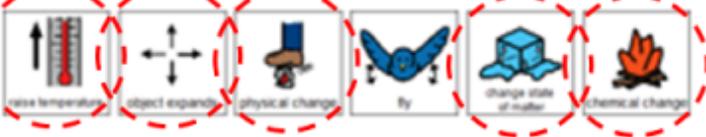
7. Heat can cause or speed up a chemical reaction like:



8. Heat can also cause a physical change. A person who uses this is:



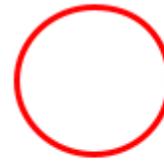
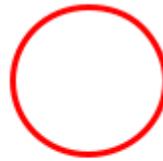
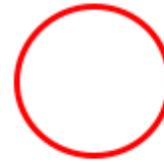
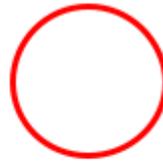
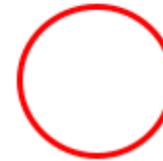
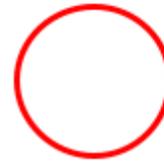
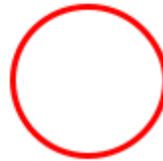
9. Circle all the ways heat can change an object.



10. True or False. In our experiment, the colored water went up the straw because of the heat. It caused the water to expand.



Circle the correct answer.



This is how the differentiated assessment looks. The assessment contains 10 questions total.



*If you need to have the print version that goes along with this, you can get the print and digital version in a bundle and save 20%. Just look below this listing. It will show you the bundle it is included in.*