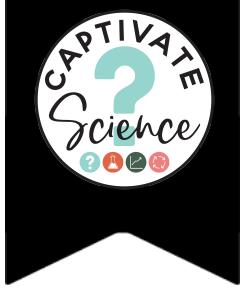


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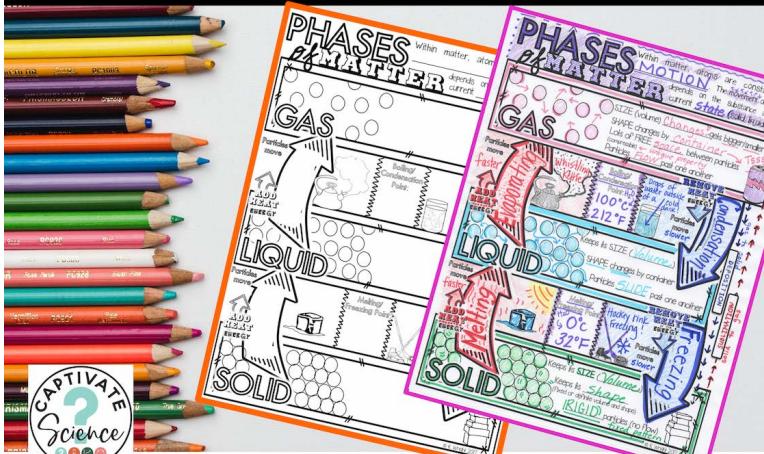
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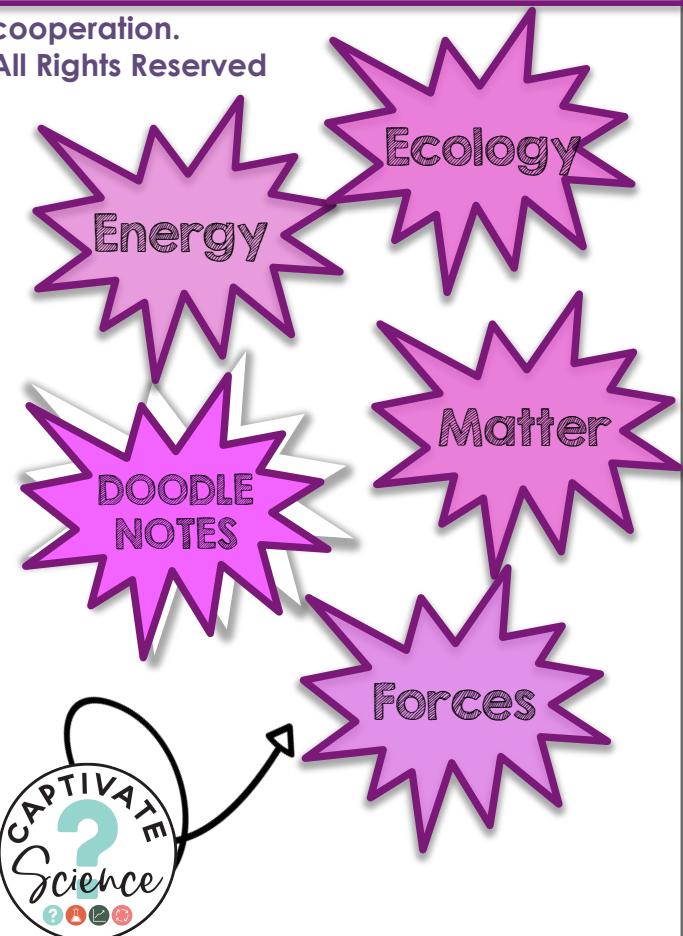
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## Phases of Matter DOODLE NOTES



SOLID LIQUID GAS

Find Other Science Lessons

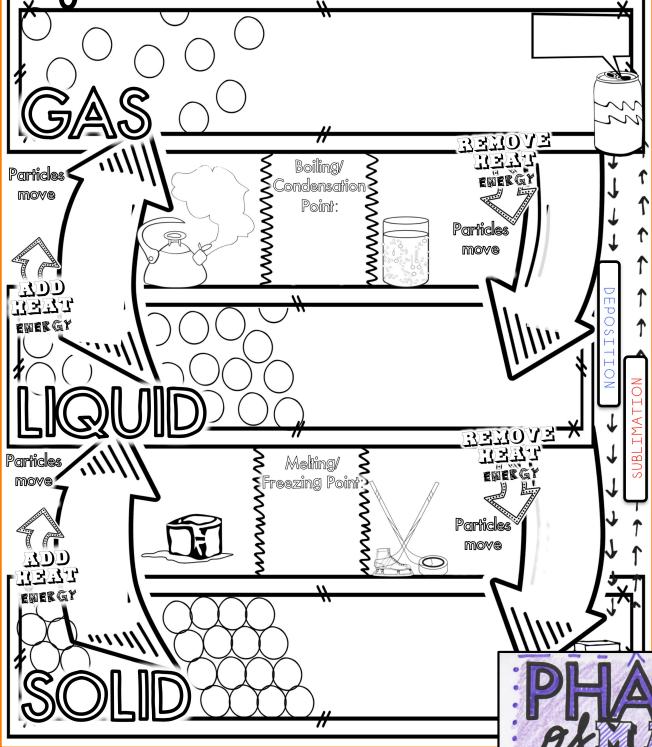


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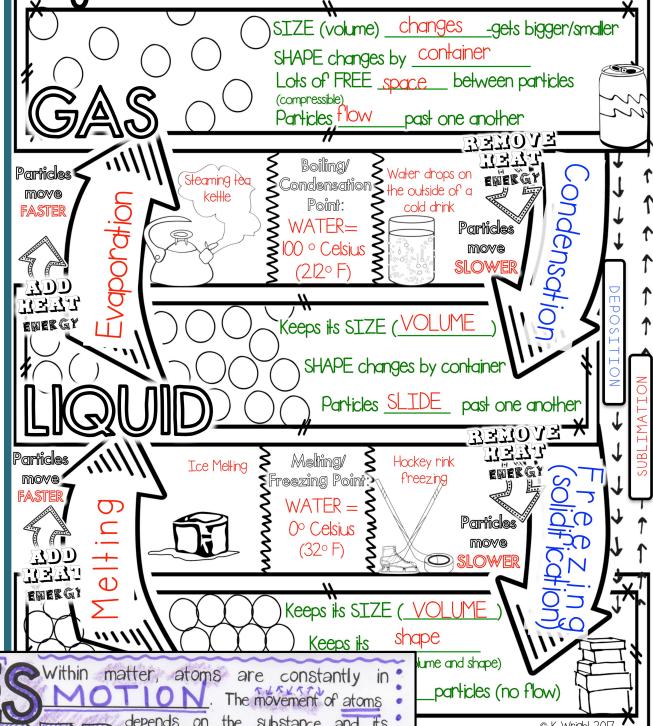
DOODLE NOTE  
PAGE

ANSWER  
KEY

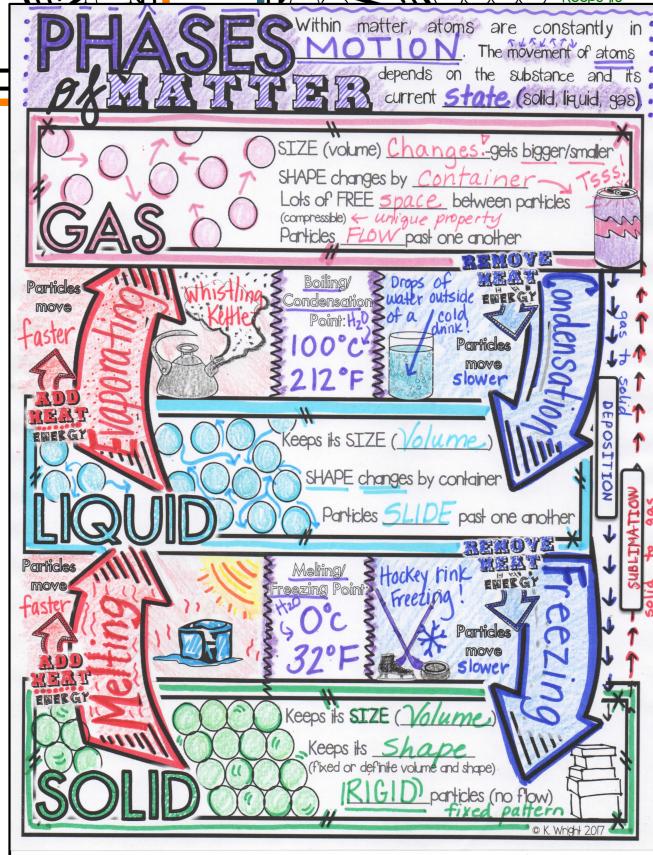
## PHASES of MATTER



## PHASES of MATTER



This is a one page download, plus answer key and an example. However, I did include 2 versions of the doodle page, one with more blank space if needed/preferred.



EXAMPLE

# Benefits of Doodle Notes

- Cross-lateral brain activity
- Reduced learning anxiety
- Improved memory of content
- Practice interpreting pictures, objects and symbols
- Content is organized for improved association

## Teaching Tips:

Doodle notes are a creative instructional approach. They are bound to reach some students that are not always reached by traditional teaching methods. That being said, you will need to get CREATIVE with how you use them! There are endless possibilities, so I'm sure you will find a way that works for your kids!

- Direct Instruction using the Exemplar (teacher models and explains each part) I suggest helping kids pick a color palette. Colors can help us associate concepts, so talk about which colors might help kids remember a concept best! (Change colors back and forth for composite- think layers of different materials..etc.)
- DOODLE Stations (Students complete one part of the notes at each station using an example that has only one part complete.) Set a timer or kids will doodle for ever!
- Independent study- students use resources (textbooks, internet etc. to complete the doodle notes independently)
- Review for an assessment (study sheet)

[Click here to read more about visual learning, doodle notes and memory at Kate's Classroom Café!](#)

## EXAMPLE OF COMPLETED WORK

# PHASES of MATTER

Within matter, atoms are constantly in MOTION. The movement of atoms depends on the substance and its current state (solid, liquid, gas).

## GAS

Particles move faster  
ADD HEAT ENERGY  
Evaporating

SIZE (volume) Changes! gets bigger/smaller  
SHAPE changes by Container  
Lots of FREE space between particles (compressible)  
unique property  
Particles FLOW past one another

## LIQUID

Boiling/Condensation Point:  $H_2O$   $100^\circ C$   $212^\circ F$

Drops of water outside of a cold drink!  
Particles move slower  
CONDENSATION  
VOLATILIZATION

Evaporation  
Keeps its SIZE (Volume)  
SHAPE changes by container  
Particles SLIDE past one another

## SOLID

Melting/Freezing Point:  $H_2O$   $0^\circ C$   $32^\circ F$

Hockey Rink Freezing!  
Particles move slower  
FREEZING  
MELTING

Melting  
Keeps its SIZE (Volume)  
Keeps its Shape (fixed or definite volume and shape)  
RIGID particles (no flow) fixed pattern

REMOVE HEAT ENERGY  
DEPOSITION  
SUBLIMATION  
gas + solid

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# PHASES of MATTER

Within matter, atoms are constantly in MOTION. The movement of atoms depends on the substance and its current state (solid, liquid, gas).

## GAS

Particles move **FASTER**

Evaporation



SIZE (volume) changes - gets bigger/smaller  
SHAPE changes by container  
Lots of FREE space between particles (compressible)  
Particles flow past one another



REMOVE HEAT ENERGY

Water drops on the outside of a cold drink

Particles move **SLOWER**

## LIQUID

Particles move **FASTER**

Melting



Keeps its SIZE (VOLUME)

SHAPE changes by container

Particles SLIDE past one another

REMOVE HEAT ENERGY

Hockey rink freezing

Particles move **SLOWER**

## SOLID

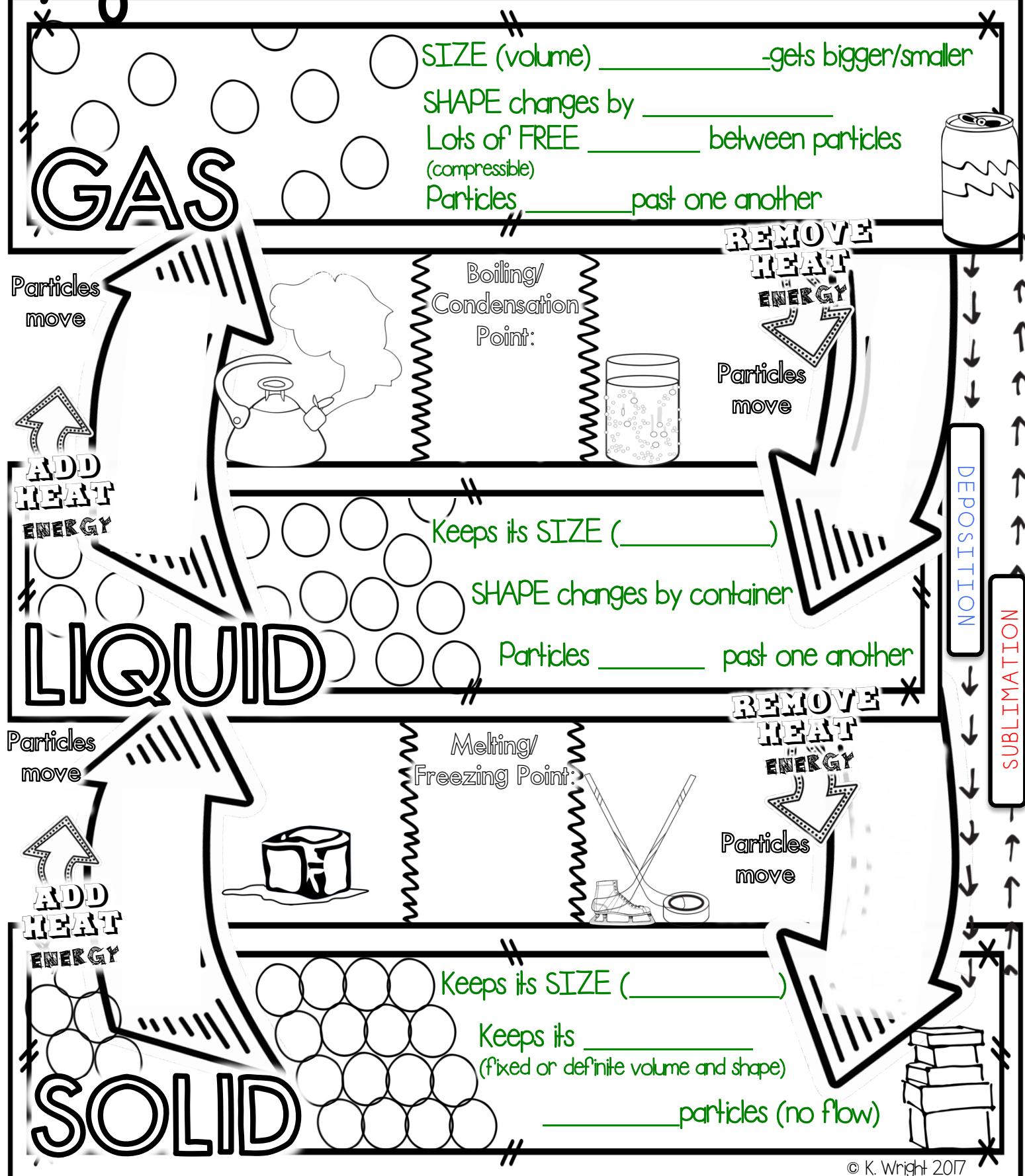
Keeps its SIZE (VOLUME)

Keeps its shape (fixed or definite volume and shape)

**RIGID** particles (no flow)

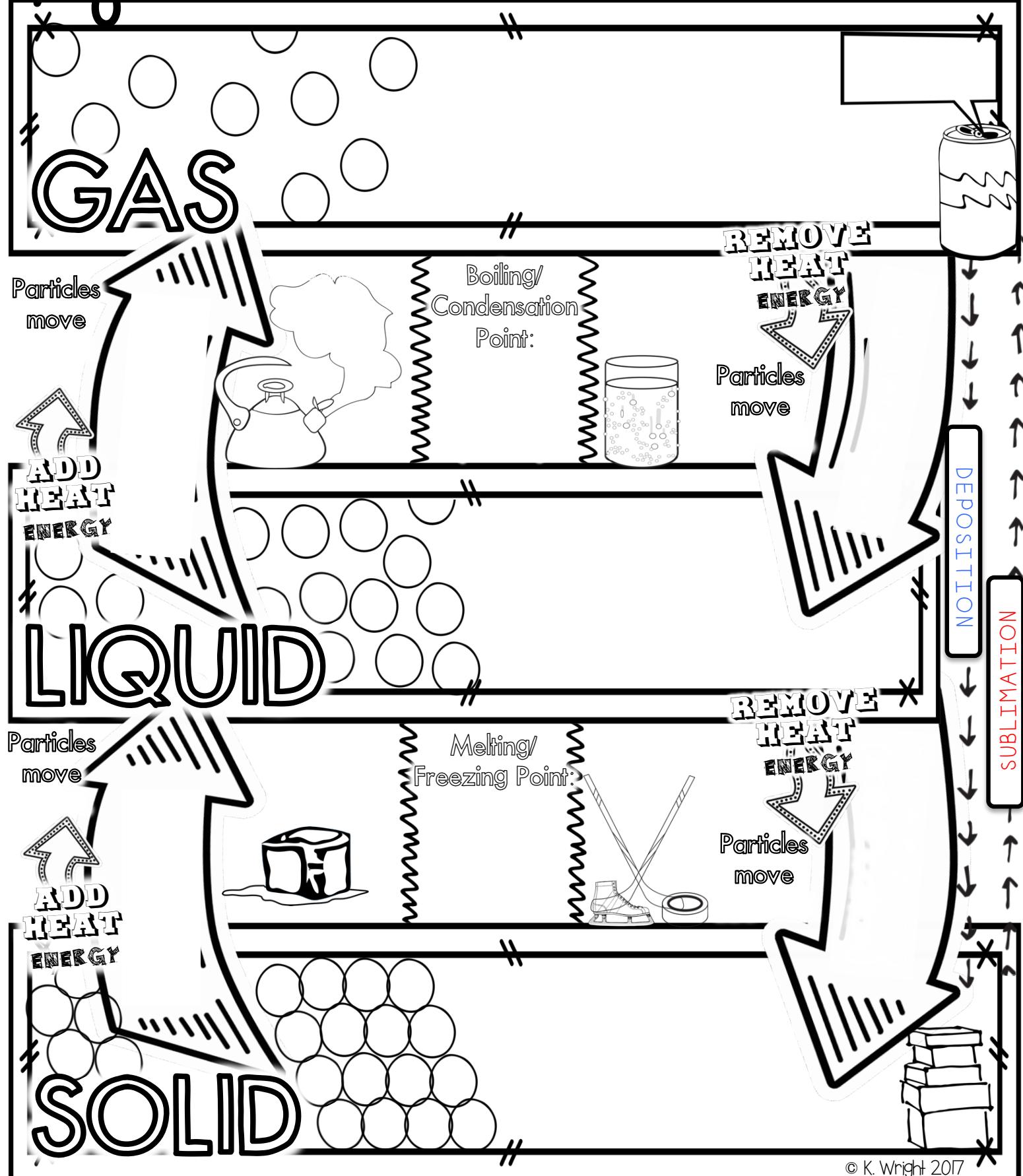
# PHASES of MATTER

Within matter, atoms are constantly in \_\_\_\_\_. The movement of atoms depends on the substance and its current \_\_\_\_\_ (solid, liquid, gas).



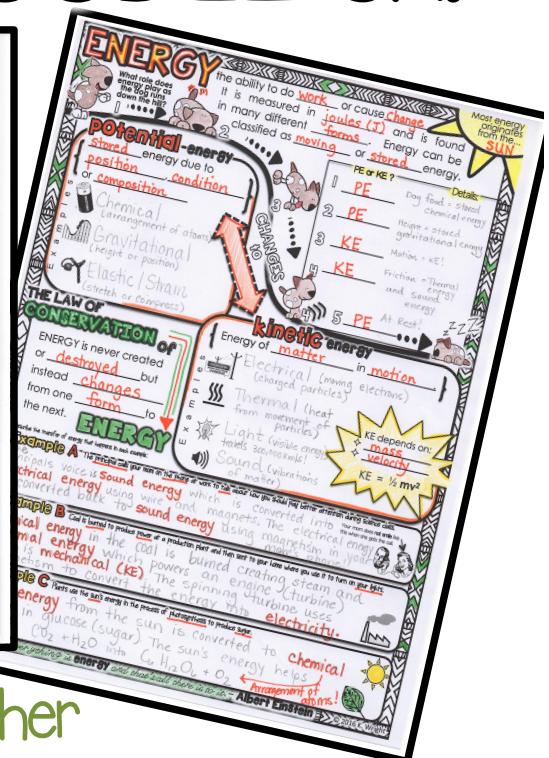
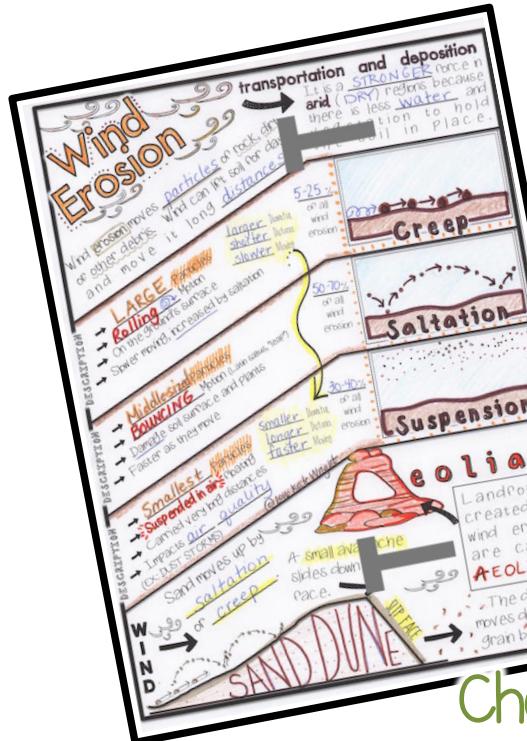
# PHASES of MATTER

Within matter, atoms are constantly in \_\_\_\_\_. The movement of atoms depends on the substance and its current \_\_\_\_\_ (solid, liquid, gas).



LOOKING for NEW ideas?

KEEP CALM and DOODLE ON!



Check out these and other DOODLE RESOURCES!



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