# States of Matter for Kids!

By Miss DeCarbo

# Kid-Friendly Posters

## solid

A solid is a state of matter. It holds it's own shape and does not flow.

## liquid

A liquid is a state of matter. A liquid flows and takes the shape of the container it is in.

## gas

A gas is a state of matter. It does not have its own shape and flows freely on its own. Sometimes we cannot see gas.

## experiment

An experiment is a project that is done to investigate or learn more about something.

## scientist

A scientist is someone who studies how or why things work in our world.

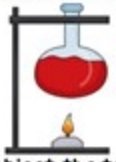
## evaporation

Evaporation occurs when water is heated up and turns to steam or vapor. The liquid becomes a gas and rises into the air.

## freezing

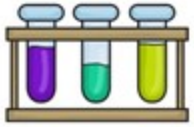
Freezing can be used to change matter. Heat is removed from the matter. A liquid that freezes will turn into a solid.

## heat



To heat an object, the temperature is turned up. Heat can turn a solid into a liquid and a liquid into a gas.

## matter



Matter is anything that takes up space. Matter is everywhere. It can be a solid, liquid, or gas. YOU are matter!

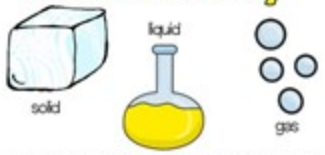
## melt

Matter will melt when it is heated. When an object melts, it changes from a solid to a liquid.

## observe

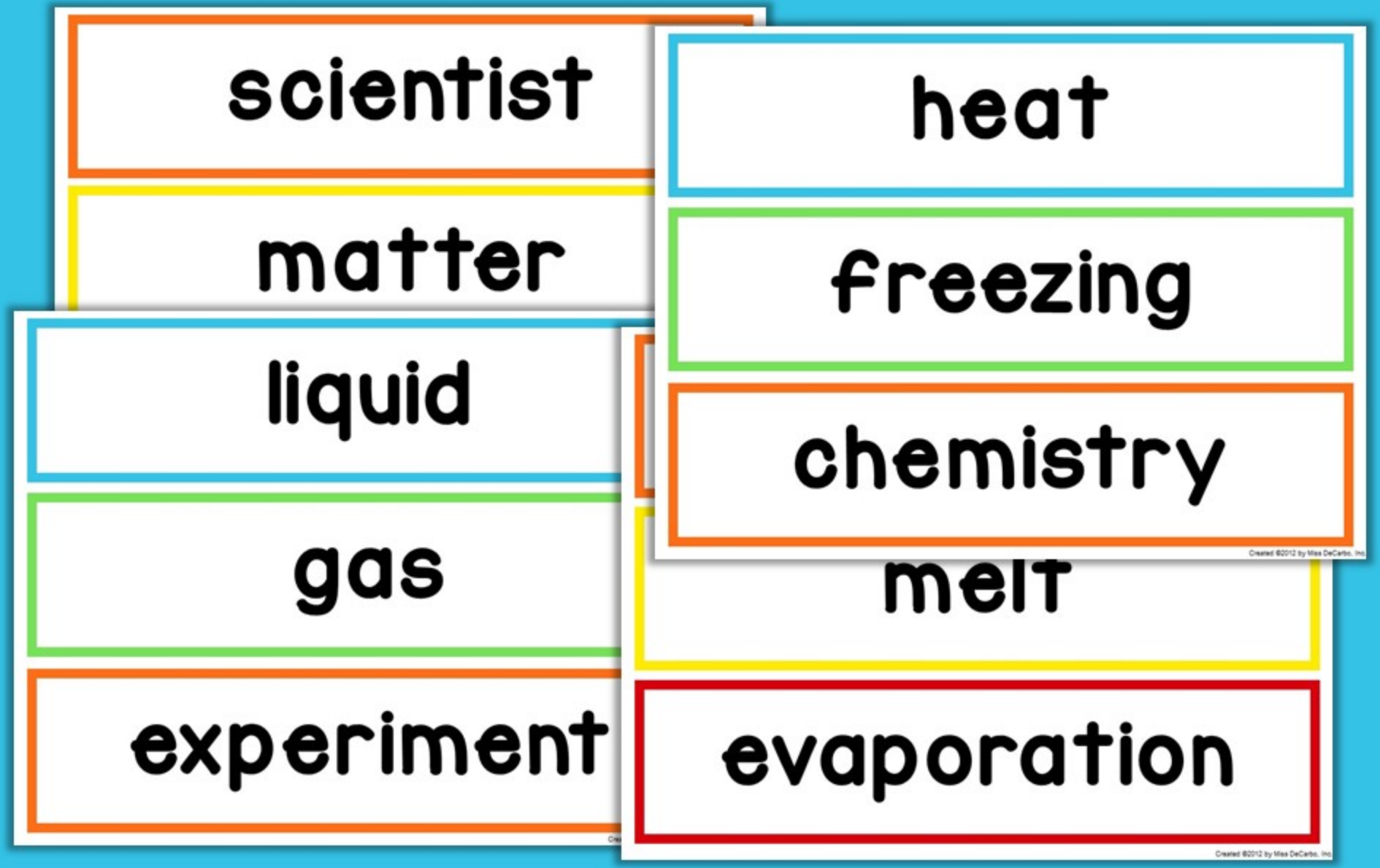
Observe means to study and look at something carefully.

## chemistry




Chemistry is the study of matter and the changes that can occur with matter.

# Vocabulary Cards



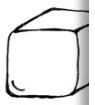
# Kid & Ink Friendly Printables

Name _____ Date _____

## Liquid to Gas

A liquid can turn into a gas when it is boiled or heated to a high temperature. The liquid turns to steam

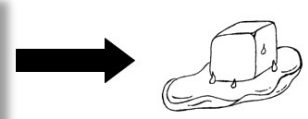
Circle the pictures below t



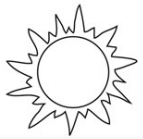
Name _____ Date _____

## Solid to Liquid

Solids can change into liquids when the temperature rises or heats up.



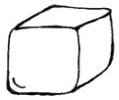
elow that could melt the ice cube.



Name _____ Date _____

## Liquid to Solid

Liquids can turn to solids when the temperature is lowered or the liquid freezes.



freeze the ice cube.

Name _____ Date _____

Directions: A solid holds it's shape, just like this pencil. What are some things that are solid in your classroom? Draw or write examples of solids in the bubbles.

## Solids



me _____ Date _____

at are liquids in your classroom? A shape of the container it is in. Draw iquids in the bubbles.

## quids

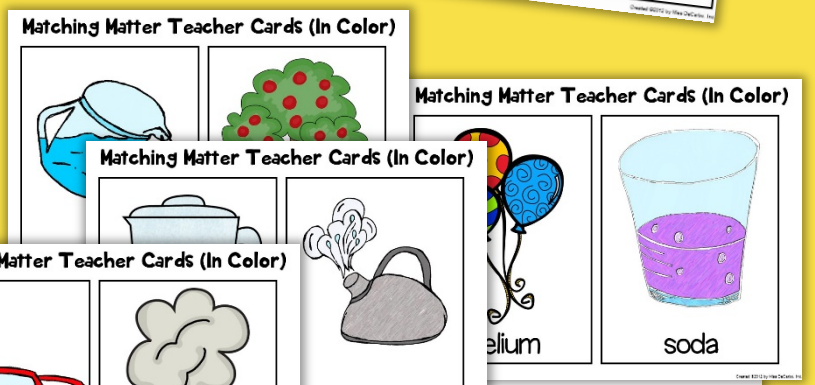


Date _____

hape, such as air. What are some or write examples of gases.

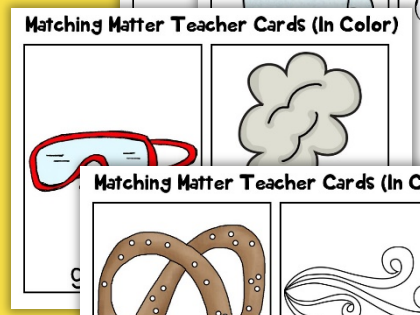
## ases

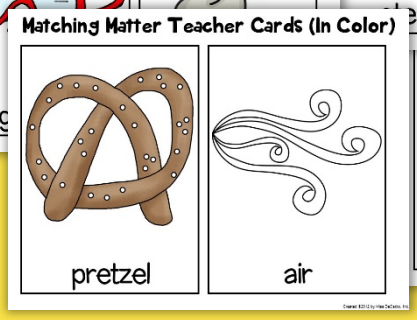
# Matching Matter Sort!

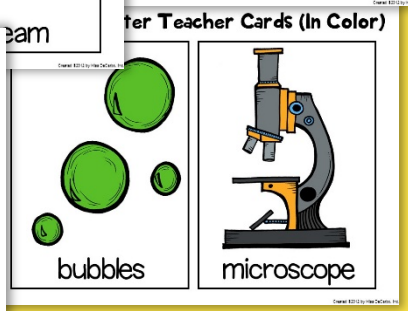



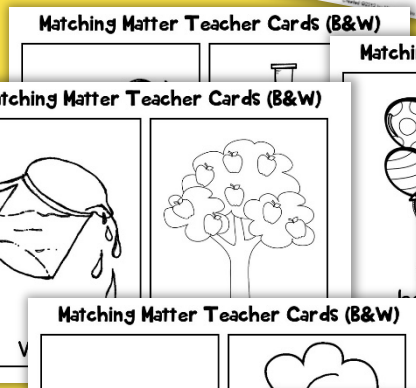


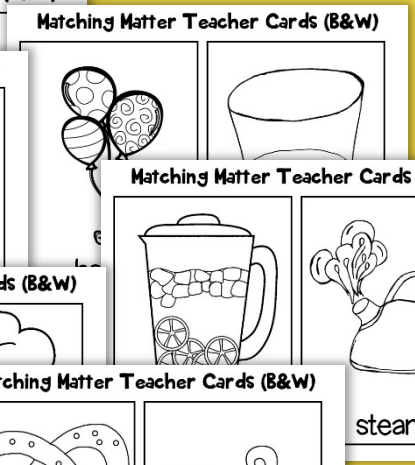




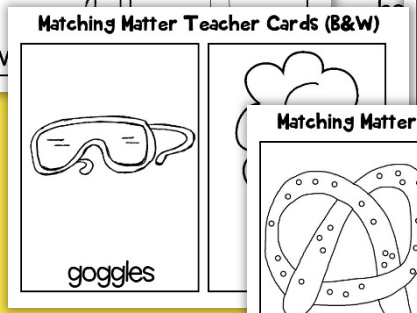



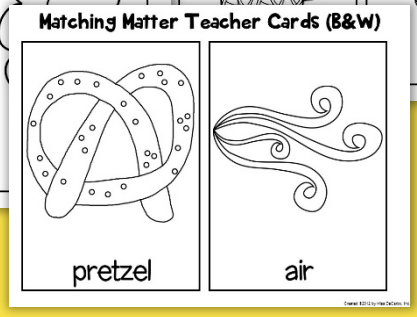





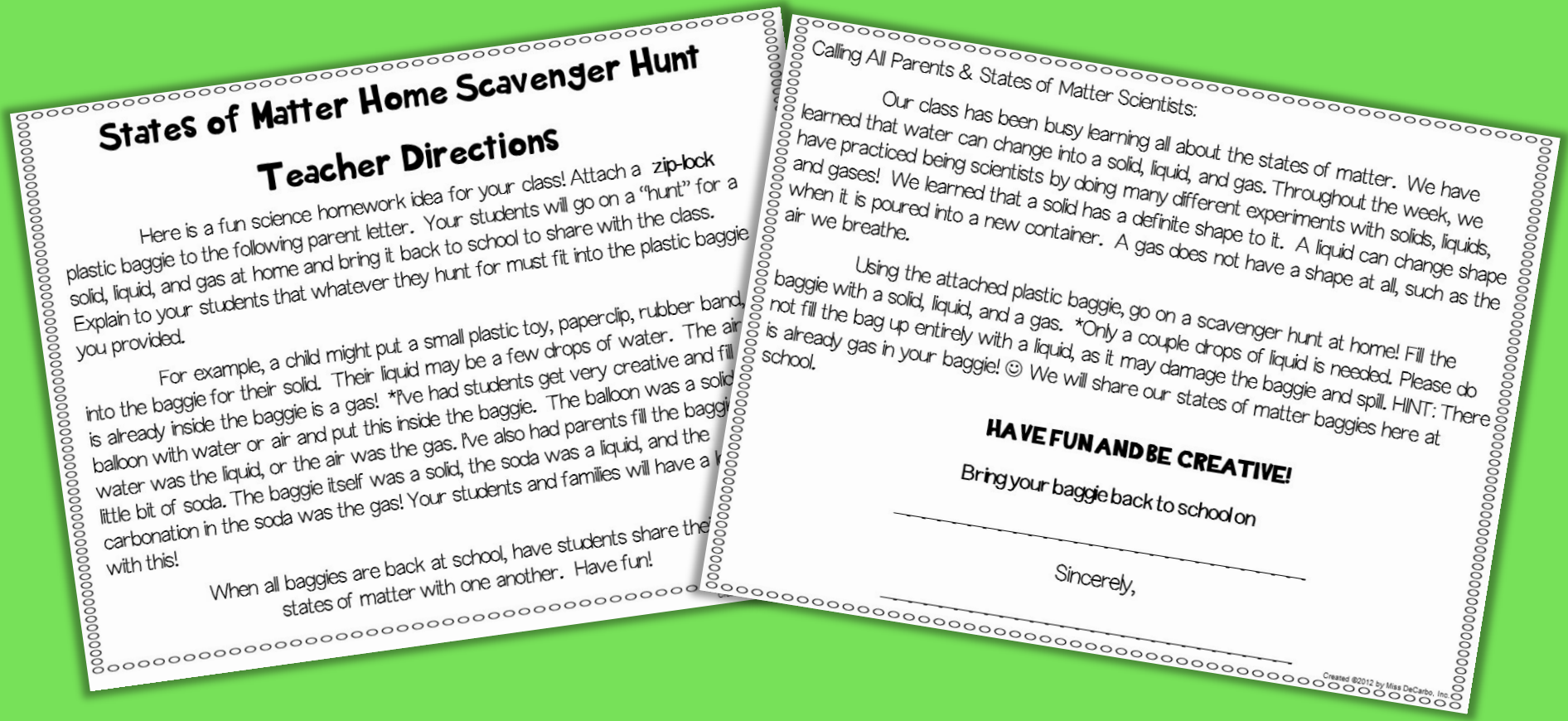




# Experiments GALORE!
# Kid-Friendly Lab Reports!

# Bring Science To Life With a FUN School To Home Connection Activity!



## States of Matter Home Scavenger Hunt

### Teacher Directions

Here is a fun science homework idea for your class! Attach a zip-lock plastic baggie to the following parent letter. Your students will go on a "hunt" for a solid, liquid, and gas at home and bring it back to school to share with the class. Explain to your students that whatever they hunt for must fit into the plastic baggie you provided.

For example, a child might put a small plastic toy, paperclip, rubber band, into the baggie for their solid. Their liquid may be a few drops of water. The air is already inside the baggie is a gas! *I've had students get very creative and fill balloon with water or air and put this inside the baggie. The balloon was a solid water was the liquid, or the air was the gas. I've also had parents fill the baggie little bit of soda. The baggie itself was a solid, the soda was a liquid, and the carbonation in the soda was the gas! Your students and families will have a l with this!

When all baggies are back at school, have students share the states of matter with one another. Have fun!

Calling All Parents & States of Matter Scientists:

Our class has been busy learning all about the states of matter. We have learned that water can change into a solid, liquid, and gas. Throughout the week, we have practiced being scientists by doing many different experiments with solids, liquids, and gases! We learned that a solid has a definite shape to it. A liquid can change shape when it is poured into a new container. A gas does not have a shape at all, such as the air we breathe.

Using the attached plastic baggie, go on a scavenger hunt at home! Fill the baggie with a solid, liquid, and a gas. *Only a couple drops of liquid is needed. Please do not fill the bag up entirely with a liquid, as it may damage the baggie and spill. HINT: There is already gas in your baggie! ☺ We will share our states of matter baggies here at school.

**HAVE FUN AND BE CREATIVE!**

Bring your baggie back to school on _____

Sincerely,

_____

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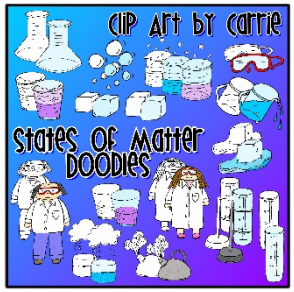


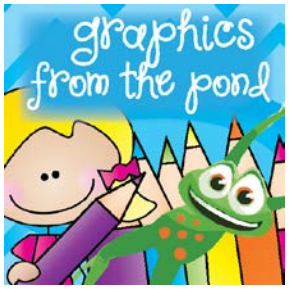














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## Christina DeCarbo



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