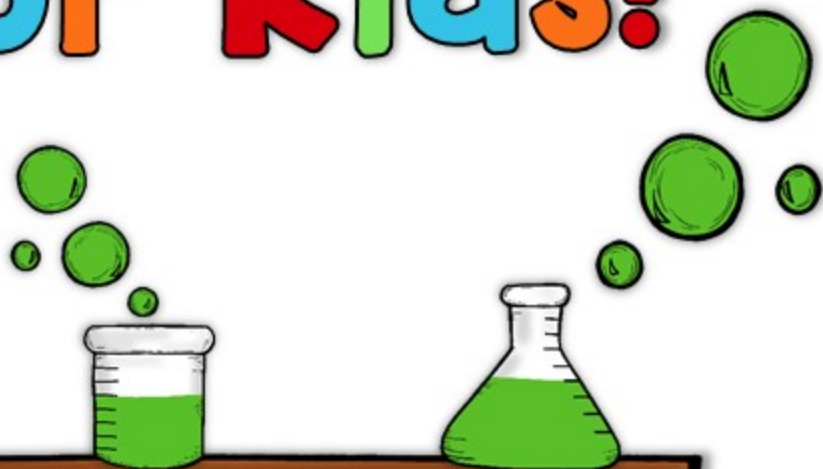
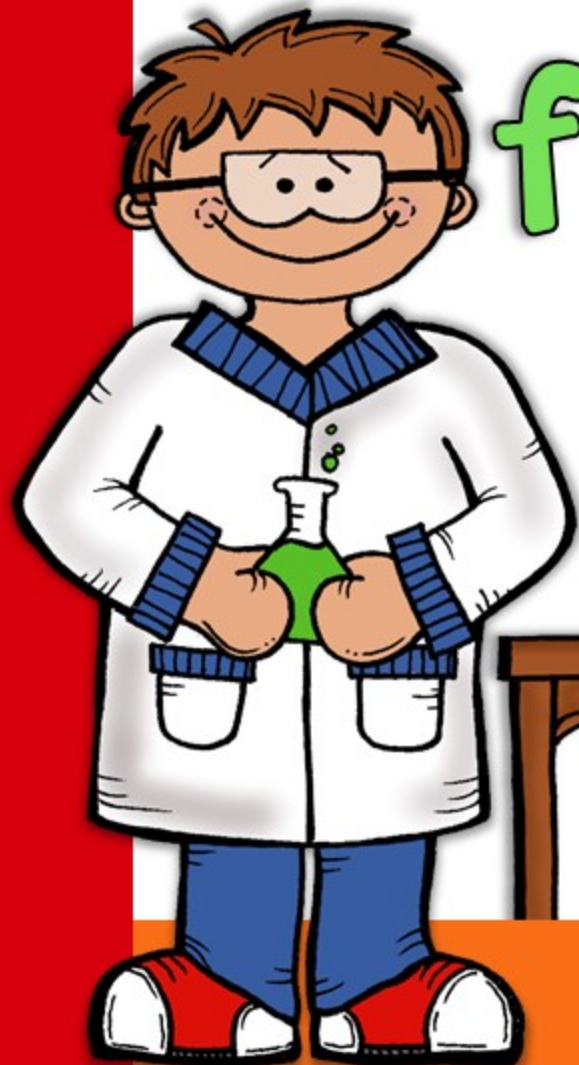


States of Matter for Kids!



By Miss DeCarbo

Kid-Friendly Posters

solid



A **solid** is a state of matter. It holds its 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

scientist

matter

liquid

gas

experiment

heat

freezing

chemistry

melt

evaporation

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.

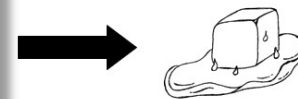
Circle the pictures below that could turn liquid into gas.



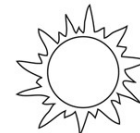
Name _____ Date _____

Solid to Liquid

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



Circle the pictures below 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.



Name _____ Date _____

Directions: A solid holds its 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

Created ©2012 by Miss DeCarbo, Inc.

freeze the ice cube.

Name _____ Date _____

Directions: A gas has no shape, such as air. What are some things that are gases in your classroom? Draw or write examples of gases in the bubbles.

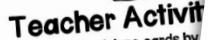
Liquids

Created ©2012 by Miss DeCarbo, Inc.

Gases

Created ©2012 by Miss DeCarbo, Inc.

Matching Matter Sort



Students will sort their picture cards by
After the students have sorted their cards
the recording sheet. You can use this
assessment!

Teachers: You can cut, copy, and laminate these cards for use in your science or learning center. Or, make them for students to cut, sort, and glue on their own.

Matching Matter Sort Cards

Teacher Answer Sheet



Matching Matter Sort

Matching Matter Sort

Date: _____

Matching Matter Teacher Cards

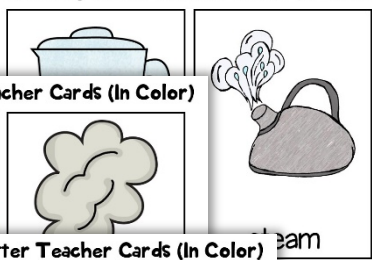


The following large matter cards can be used by the teacher to help students in the sorting activity. These cards could also be used in a pocket chart or placed in a science center or learning tub. Cut and laminate for durability.

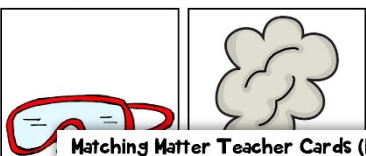
Matching Matter Teacher Cards (In Color)



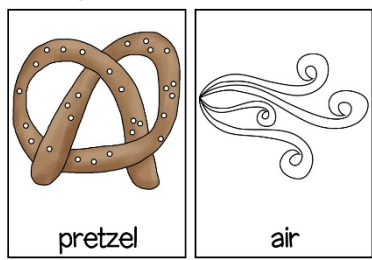
Matching Matter Teacher Cards (In Color)



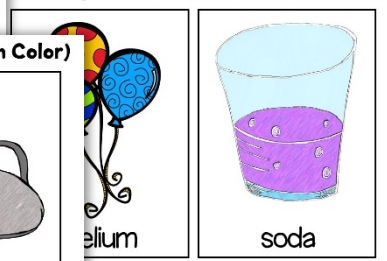
Matching Matter Teacher Cards (In Color)



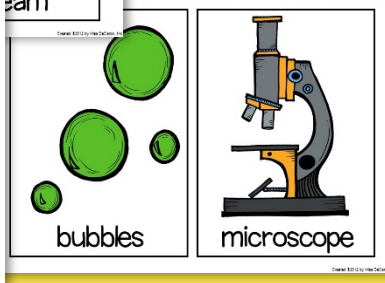
Matching Matter Teacher Cards (In Color)



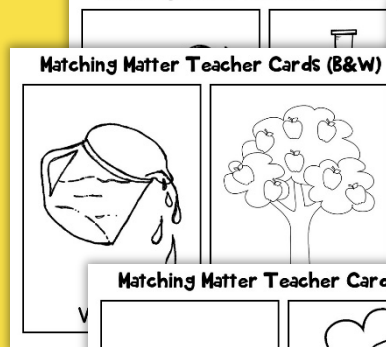
Matching Matter Teacher Cards (In Color)



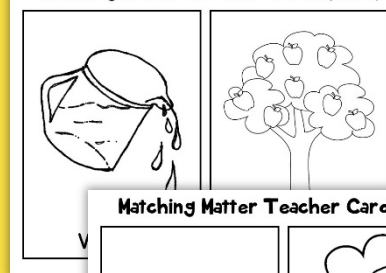
ter Teacher Cards (In Color)



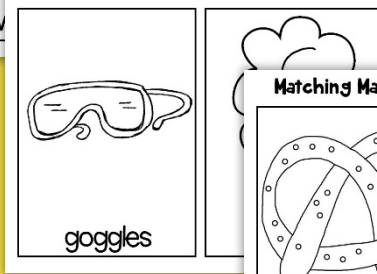
Matching Matter Teacher Cards (B&W)



Matching Matter Teacher Cards (B&W)



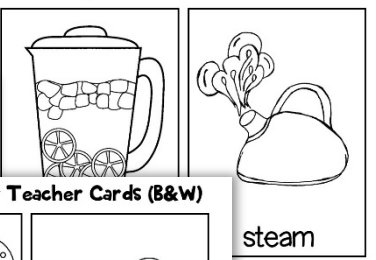
Matching Matter Teacher Cards (B&W)



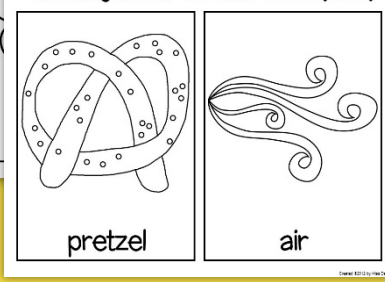
Matching Matter Teacher Cards (B&W)



Matching Matter Teacher Cards (B&W)



Matching Matter Teacher Cards (B&W)



Experiments GALORE!

Kid-Friendly Lab Reports!

Cornstarch & Water Experiment Teacher Activity Directions

To carry out the activity, add cornstarch to each bowl. Allow the kids time to feel the cornstarch and explore. Explain that even though you can pour cornstarch into a container, a little grain of cornstarch is a solid. Have the students predict what the mixture will be when the water is added to the bowl.

Next, add a little water to each bowl (about $\frac{1}{4}$ to $\frac{1}{2}$ a cup for every cup of cornstarch you put into the bowl). The kids can then use their hands to slowly mix the cornstarch and water together. Add enough water so that the mixture flows, but not too much. You should be able to grab the mixture and squeeze it into a ball (a solid) before letting it flow out of your hand.

While students are exploring, ask them these questions:

Can you pick it up?

Cornstarch & Water Experiment Teacher Activity Directions

Get ready to have FUN with matter! This activity can get a little messy, so be sure to put down some plastic tablecloths for spills, or complete the activity outside. For this experiment, you will need cornstarch (about one 16oz box for every 2 to 3 students), water, and small bowls. I had students complete this activity with a partner. You may also choose to do this individually or in small groups, as you know your class best! ☺ This experiment is fun and unexpected for your students, as they will find out the cornstarch and water mixture is both a liquid and a solid! ☺



Cornstarch & Water Lab Report (Part 1)

4. The mixture felt like both a solid and a liquid. Which one do you think it is?

I think the mixture is a _____ because _____

SURPRISE! The mixture can be both a solid AND a liquid! It is really called a non-Newtonian fluid. Solid bits of cornstarch do not dissolve in the water. The grains of cornstarch are still there. This is why the mixture feels like a solid when you squeeze it. It also feels like a liquid when the water is mixed with the cornstarch!

Pretty cool, huh?

Did you like this experiment? Why or why not?

Let's Make a Fizzy Purple Cow!! Teacher Activity Directions (Cont.)



continued Directions:

Date _____

My Fizzy Purple Cow Lab Report

1. Is the frozen scoop of ice cream a solid, liquid, or gas?
2. Is the grape soda a solid, liquid, or gas?
3. Where do you think the gas is in your purple cow?

The bubbles in your purple cow are filled with carbon dioxide. Carbon dioxide is a gas! Your purple cow contains all three forms of matter: solid, liquid, gas!

4. Label all three forms of matter on your purple cow. Write solid, liquid, or gas.



grape soda

Jell-O Experiment Teacher Activity Directions

Make Jell-O with your students. The process of making Jell-O involves all three properties of matter. Explain to the children that the Jell-O looked like during each of state of matter.

1. Use the stove-top Jell-O. Explain that the water in the pan (or the heater that you would use) is turning into water vapor and turning into water (made out of water).

3. Put the Jell-O mixture into the refrigerator. Have the students that the fridge will change the state of matter the Jell-O will turn into.

4. After approximately 12 hours (you want your Jell-O to be very solid), take the Jell-O out of the refrigerator. Show your students how the Jell-O has changed from a liquid to a solid! Complete the remainder of the lab report to display and show their findings. Then, eat and enjoy!

My Jell-O Lab Report - Part 1

1. Observe as your teacher boils the water. Some of the water will turn to steam. Steam is a type of gas made out of water droplets. Draw a picture in the box of what this gas looks like.
2. Watch as your teacher pours the water into the mixing bowl. What state of matter is the water in? Circle the state of matter: solid liquid gas
3. Draw a picture of what the Jell-O mixture looks like.

4. Make a prediction! What do you think will happen to the Jell-O when it is in the refrigerator? Do you think it will turn into a solid, a liquid, or a gas?

I think the Jell-O will turn into a _____ because _____

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 a 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 with a 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 lot of fun 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.

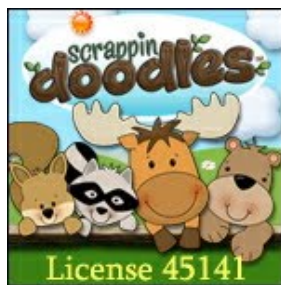
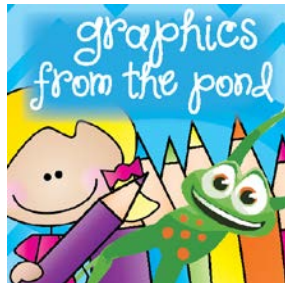
HAVE FUN AND BE CREATIVE!

Bring your baggie back to school on

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Happy Learning,

Christina DeCarbo

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