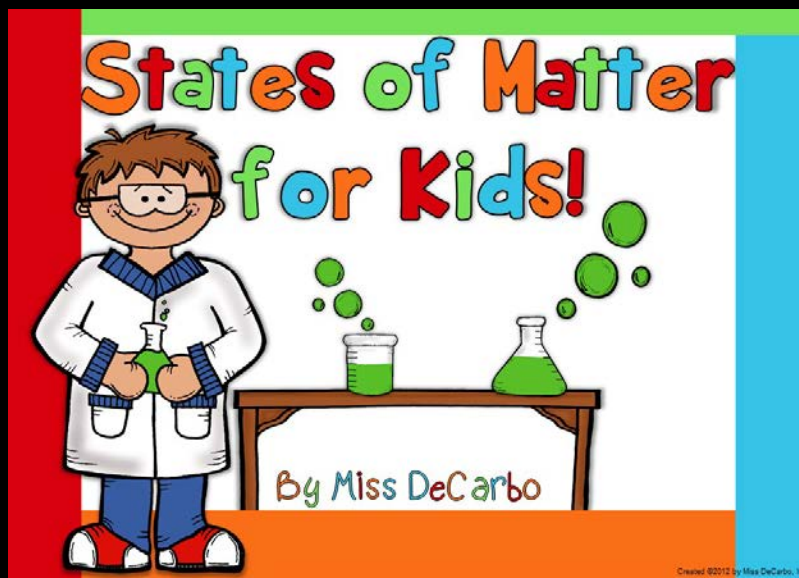
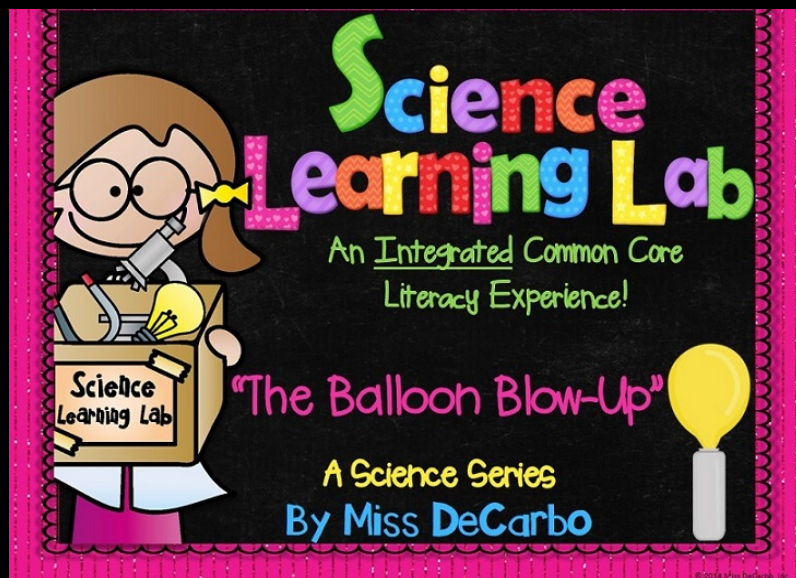
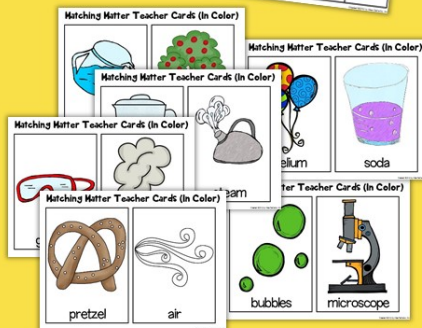


SCIENCE UNIT MEGA BUNDLE!



BY MISS DECARBO

Matching Matter Sort!



States of Matter for Kids!



By Miss DeCarbo

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.

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



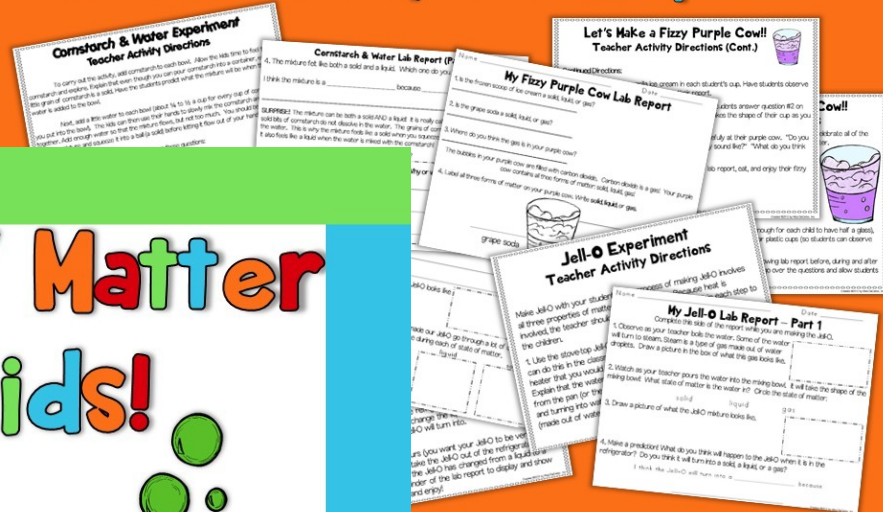
Observe means to study and look at something carefully.

chemistry

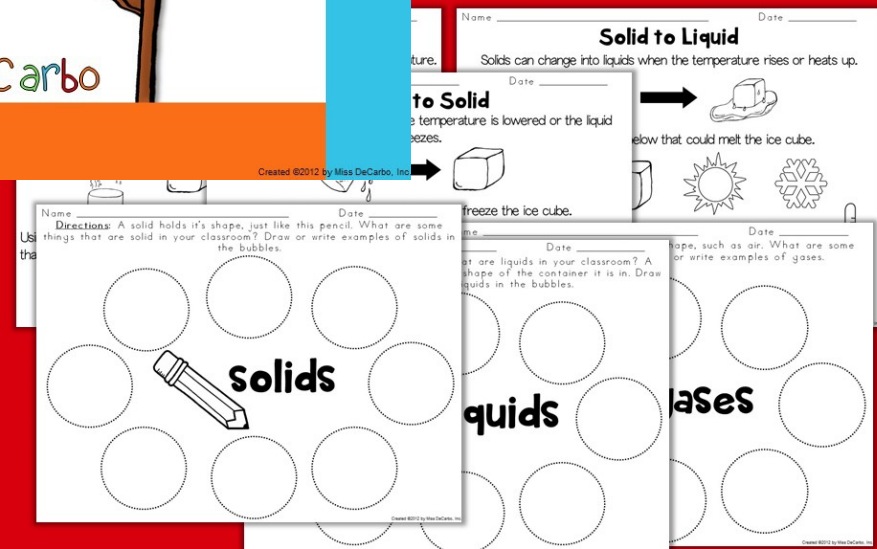


Chemistry is the study of matter and the changes that can occur with matter.

Experiments GALORE! Kid-Friendly Lab Reports!



Endly Printables



motion

Motion occurs when an object moves from one place to another.

energy

Energy is the ability to do work. It is needed to make an object move.

work

Work happens when a force moves an object.

force

Force is the push or pull on an object. Force makes the object move or change direction.

pull

push

friction

circles

Friction Frenzy

Objective: Students will participate in a science experiment and complete a lab report the effect of friction in order to understand that friction is a force that can slow down objects in motion.

Introduction: Review or introduce the concept of friction to your students. "Friction force that can slow down objects in motion. Friction occurs when an object rubs against something." Relate the concept of friction to your student's everyday lives. For example, "If you put on ice skates, will you slide around easily on ice or on the sidewalk?" Invite students to discuss the question with one another. "You will slide on the ice because it is slippery. The sidewalk is rough. You will slide better on the sidewalk because there is less for your shoes to grip against." The sidewalk will slow you down. "If you put on a car, will it slide on the road? The car has less friction than the sidewalk, so there is less friction about the car." "If you put on a car, will it slide on the road? The car has less friction than the sidewalk, so there is less friction about the car."

Use both ends of the ramps to a box or stack of books. Use the picture to create a low ramp. The construction paper and sandpaper turn the "road" for the cars.

Set the cars at the top of the "road".

motion

slide

roll

FORCES & MOTION

A Science Unit for Kids!

By Christina DeCarbo

Movin' and Groovin'

Movin' and Groovin'

Objective: Students will practice following directions and understanding the words right, left, backward and forward.

Introduction: Ask the students if they know what direction objects can move. Students might come up with words like right, left, forward, backward, etc. Then, ask students what direction a car can move. Explain to students generally move right, left, backward, and forward. Ask the students "What"

Motion Mission #2: Spinning Top

Could you make the top spin without ever stopping?

Motion Mission #4: Marbles

What did you do to move the marble in a straight line?

Motion Mission #6: Bubbles

You did work when you blew on the wand. What happened when

GPS Directions

Objective: Students will practice following the directions to the amusement park.

Introduction: Ask the students if they know what direction objects can move. Students might come up with words like right, left, forward, backward, etc. Then, ask students what direction a car can move. Explain to students generally move right, left, backward, and forward. Ask the students "What"

Activity: Read #1 on the GPS and follow the directions by drawing a straight line until your pencil reaches the end of the "road". Turn your paper 90 degrees to the left so that you are now looking at the paper vertically. Read #2 on the GPS and follow the directions by drawing a line to the left with your pencil to tell Tommy to "turn" left with his car. Continue to follow the directions until you reach the park!

6 Hands On Motion Stations!

Motion Mission #2: Spinning Top

Task #1: Spin the top. Observe what happens.

Task #2: Now, try to spin the top so that it never stops spinning. Can you do it?

Task #3: Record the results of this mission in your notebook!

Motion Mission #4: Race Car

Task #1: Roll the car forward.

Task #2: Push the car away from you as far as you can. Record the results of this mission in your notebook!

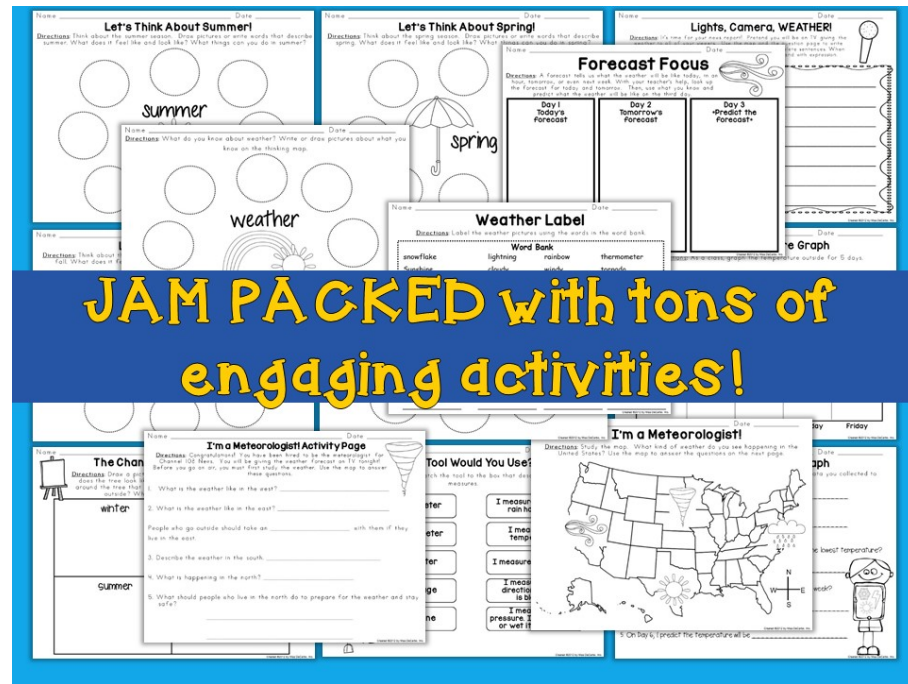
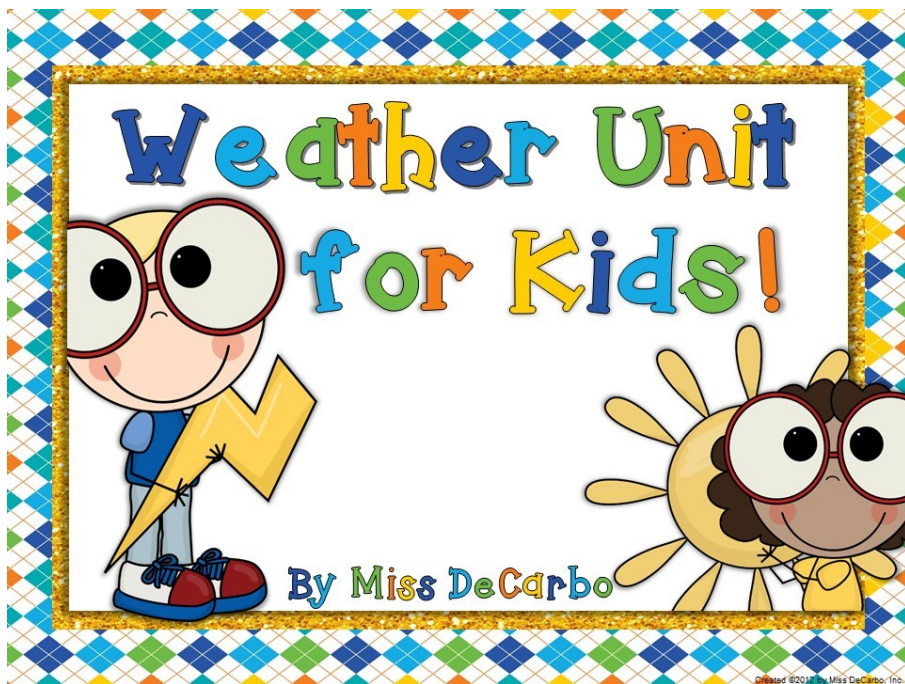
Task #3: Record the results of this mission in your notebook!

Motion Mission #6: Bubbles

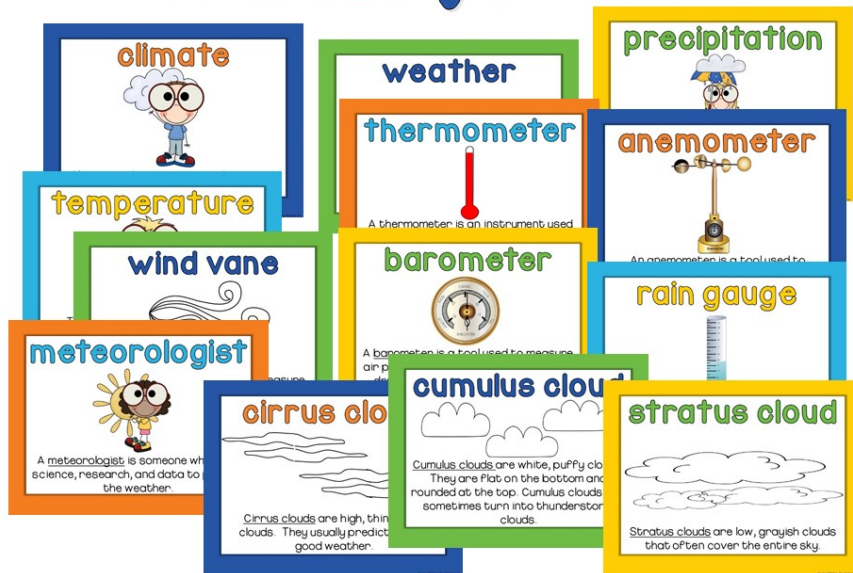
Task #1: Blow bubbles. Observe what happens.

Task #2: Make bubbles without using your breath. Record the results of this mission in your notebook!

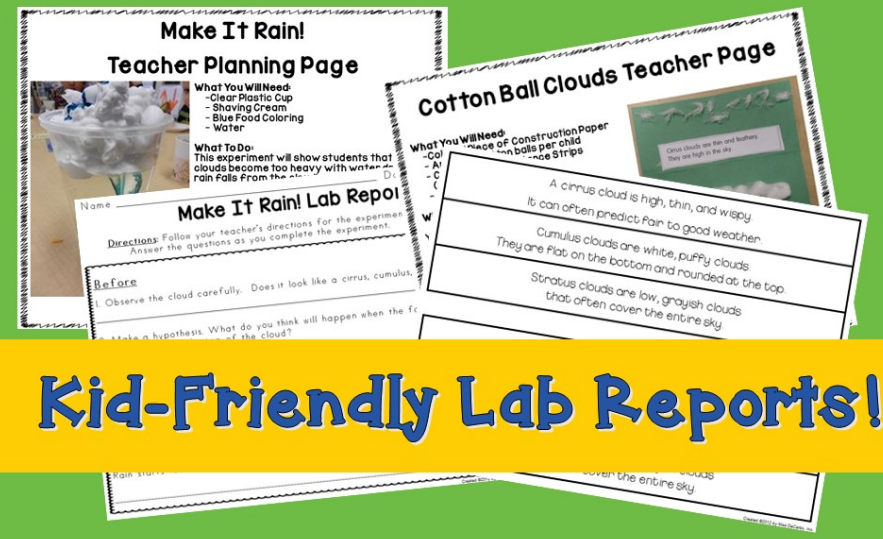
Task #3: Record the results of this mission in your notebook!



Vocabulary Posters



Interactive Experiments!



Kid-Friendly Lab Reports!

Science Learning Lab

An Integrated Common Core Literacy Experience!

Science Learning Lab

"The Balloon Blow-Up"

A Science Series
By Miss DeCarbo

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Let's Integrate Our Learning!
Common Core Writing Activities

In my classroom, a science experiment is always used to motivate my learners and provide a hands-on experience for further reading and writing activities. Students with background knowledge and the ability to make connections among all areas of their learning have greater success in their understanding of concepts. Science experiments allow teachers to establish a fun, motivating, and hands-on learning experience which can then be connected to reading and writing within the classroom. This makes learning meaningful to students!

Differentiated versions of expository, informational, opinion, and narrative writing are included. In addition, templates for both a fiction and a scientific class book are included. ©

These activities can also be incorporated into your small group lessons or even sent home with the Take Home Kit. The reading passages and narrative writing can be completed separate from the experiment, if you choose to use them in that way. The possibilities are endless!

Writing Activities Are Differentiated - Choose the format that best meets your students' needs and level. ©

Take Your Science Instruction To The Next Level...Integrate the Common Core with Differentiated Writing Activities. Expository, Informational, Opinion, and Narrative Writing Are All Included!

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The Lab Report

This section contains two versions of the lab report that coordinate with this experiment. Choose the version that best meets your students' needs. For kindergarten and beginning students, I recommend the simplified version. For students using this report during the second half of the year, I recommend the advanced version. In the advanced version, I expect more writing on the lab report explanations.

Print the lab report as double sided for your students. Print a lab report for each child.

My Lab Report

Name: _____

Part 1: Draw what you think will happen to the balloon when the baking soda and vinegar mix together.

Part 2: Write what happened to the balloon when the baking soda and vinegar mix together.

Part 3: Why do you think the balloon blew up? Write about why you think the balloon blew up?

Part 4: Talk about what you learned from the experiment with an adult or teacher. Write about what happened in the experiment with an adult or teacher.

My Lab Report...continued

Name: _____

Part 1: Write and draw what you think will happen to the balloon when the baking soda and vinegar mix together.

Part 2: Write what happened to the balloon when the baking soda and vinegar mix together.

Part 3: Why do you think the balloon blew up? Write about why you think the balloon blew up?

carbon dioxide

Carbon dioxide is a gas. When carbon dioxide is dissolved in liquid, it creates bubbles such as the bubbles in a fizzy drink.

chemical reaction

A chemical reaction takes place when two or more substances or materials, mix together to form a new substance.

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.

hypothesis

A hypothesis is what you think will happen in an experiment using what you know and what you think is true.

conclusion

A conclusion is what you learn from the results of an experiment.

Differentiated Lab Reports (Choose the Version That Meets Your Students' Needs!) & Vocab Posters

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Setting Up The Learning Lab

What You'll Need:

- Lab "Box" To Hold Supplies (Just a Tupperware or plastic container to hold materials)
- 1/4 Cup of Vinegar (Have students measure or pour it in a graduated cylinder and place it in the box)
- 1 Tablespoon of Baking Soda
- Balloons (1 balloon per experiment)
- Empty Water Bottle
- Table Cloth or a cloth to place the lab box on to make it "neat" and clean to use

Directions

This section includes step by step directions to complete the experiment. I've included both a list of directions and a picture guide.

Step #1

Spread the tablecloth over your workplace to keep it clean and free from any mess.

Step #2

Pour the vinegar into the empty bottle.

Step #3

Use the funnel to pour the baking soda into the bottle. (Have a partner hold the balloon while you pour the baking soda.)

Step #4

Stretch the open end of the balloon over the neck of the bottle.

Step #5

Hold the balloon at the bottle's neck and pick up the heavy part of the balloon so that all of the baking soda falls into the bottom of the bottle.

Step #6

Complete Parts 3 and 4 of your lab report. Then, clean up! Follow your teacher's directions to clean up your area and supplies.

A Fun, Quick, and Highly Engaging Science Experiment with Step by Step Picture Directions and Slides!

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Thank you for purchasing this learning pack!



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Happy Learning,

Christina DeCarbo

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