SECTIONS: 4A,B,C,D,E

DATE	Homework	PARENT SIGNATURE
Monday	No School-Labor Day	
Tuesday	→ Begin working on Why Does Matter Matter?	
Wednesday		
Thursday	Thursday → Continue working on Why Does Matter Matter? → Begin ScienceIAN homework	
Friday	→ Cont. Working on all homework→ Due Monday	

SCIENCE -- I.A.N

- Finish numbering your pages.
- Finish "About the Scientist" if you haven't done so.
- Cut and paste the "Science IAN Homework" page insert onto page 2 of your IAN.
 - Follow the directions on the page:
 - DRAW examples of a solid, liquid, and a gas.
 - Use color and be creative
 - NO PICTURES from GOOGLE!!

VOCABULARY

Physical property:any measurable or observable attribute that describes matter

Mass: a measurable physical property that can be described as the amount of matter in an object

Balance scale: an instrument/tool used to measure the mass of solids

Gram: metric unit for mass

Volume: the amount of space an object takes up

Graduated cylinder: tool

used to measure the amount of liquids and powdered substances

Color: an example of a physical property that can be observed

Texture: another physical attribute used to describe how something feels when you touch it

Reminders

- Parents: Don't forget to initial your child's HW Cover Sheet every night.
- You are taking your I.A.N home this week, please remember to bring it back every day!
- You are taking your SPEED BAG home this week on Wednesday don't forget to bring it back to school!!

HW DUE MONDAY

Name:	
NUHE.	

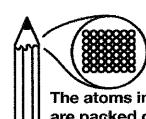
Why Does Matter Matter?

by Kelly Hashway

What do trees, air, and water have in common? They all have matter. That means they take up space. You might be wondering why these things look so different if they all have matter. Everything found on Earth can be grouped into one of three states of matter: solid, liquid, or gas. In order to figure out which state of matter an object fits in, we have to examine its properties. The properties we look at are shape, mass, and volume. Mass is the amount of matter an object has, and volume is the amount of space the matter takes up.

Solids are easy to recognize. They have definite shape, mass, and volume. Trees are solids. They are made up of tiny particles called atoms. These atoms are packed closely together, and they hold the solid in a definite shape that does not change. If you look around your house, you will see lots of solids. Televisions, beds, tables, chairs, and even the food you eat.

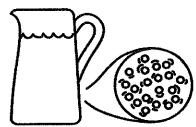
Liquids do not have definite shape, but they do have definite mass and volume. Liquids are similar to solids because their atoms are close together, but what makes a liquid different is that those atoms can move around. Liquids can change shape by flowing. If you've ever spilled a glass of milk, then you know it spreads out across the floor. It does this because the milk is taking the shape of the floor. Since liquids do not have a definite shape of their own, they will take the shape of their containers. This is why the same amount of milk can look different in a tall glass, a wide mug, or spread out on your kitchen floor.



The atoms in a solid are packed closely together. They bond together and do not change shape.

Liquid

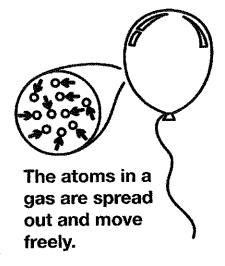
The atoms in a liquid are close together. They slide around.

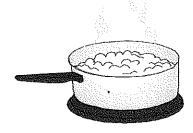


Gases do not have definite shape or volume. Like liquids, gasses will take the shape of their containers. If a gas is not in a container, it will spread out indefinitely. This is because the atoms in a gas are spaced farther apart than in a solid or a liquid. And being spread out like this allows them to move around freely. Think about the air you breathe everyday. That air is spread across the empty space around the earth. You've probably also noticed that you usually cannot see the air. This is another property of gases. Even though we cannot see them, you come in contact with them everyday. There's air in the tires of your family car and your bicycle. There are many different types of gas in the earth's atmosphere, such as oxygen, carbon dioxide, nitrogen, water vapor, and helium.

When trying to remember the three states of matter, think about water. If it freezes into a solid, it becomes ice. Its atoms are packed together keeping its shape. Of course, we know water can also be a liquid. It flows in rivers or it can be poured from a glass. When water evaporates it becomes water vapor, a type of gas in the air. Try a little experiment of your own by placing an ice cube in a covered glass or container. You will be able to observe the ice first in its solid form and then watch as it melts into a liquid to become water. Eventually the water will turn to water vapor and your glass or container will be filled with this gas.

Gas





You can see three different states of matter in this picture. The pot is made of solid matter. The water inside the pot is liquid.
When the liquid is heated it becomes water vapor, which is a gas.

Matter is everywhere! Can you find a solid, a liquid, and a gas around you right now?

Name:	

volume

solids

Why Does Matter Matter?



juice

by Kelly Hashway

container

- 1							
	gases	mass	atoms	chair	oxygen	melting	
	liquids	shape	space	milk	helium		
Cr	oose a wo	rd from the box	to complete eacl	n sentence.			
1.	The thre	ee basic prope	rties of matter are		······································		
			, and	***************************************	·		
2.	All mat	ter is made up	of tiny particles ca	lled			
3.	Volume	e is the amount	of		that matter takes u	p.	
4.	Mass is	the amount of		an	object has.		
5.	Liquids	Liquids take the shape of their					
5.	***************************************	do not have a definite shape or volume.					
7.		do not have a definite shape, but they do have a definite volume.					
3.		have a definite shape and volume.					
>.	Α		and		are examp	les of solids.	
10			and		are examples	of liquids.	
11			and		are examples	of gas.	
12	Solid ic	e is	V	vhen it is chanai	ng into a liquid.		

matter

ice

Name:		 _

Properties of Matter

<u>Directions:</u> What do you know about the properties of matter? Answer each question, then, research to see if you were correct.

1.	What is matter?		
2.	What are the three st	ates of matter?	
-			
3.	Which state holds its	own shape?	to posterono contrata de la contrata del contrata del contrata de la contrata del la contrata de la contrata del la contrata de la contrata d
4.	What do you know al	oout a gas's molecules?	
5.	What state of matter	takes the shape of its con	tainer?
6.	What do you know al	bout a solid's molecules?	
7.	Name three solids.		
8.	Name three liquids.	ging-joj-ghijoh phijohikan menaman	
9.	Name three gasses.		
10	. All matter has	and	
	takes up		

SCIENCE I.A.N. HOMEWORK

