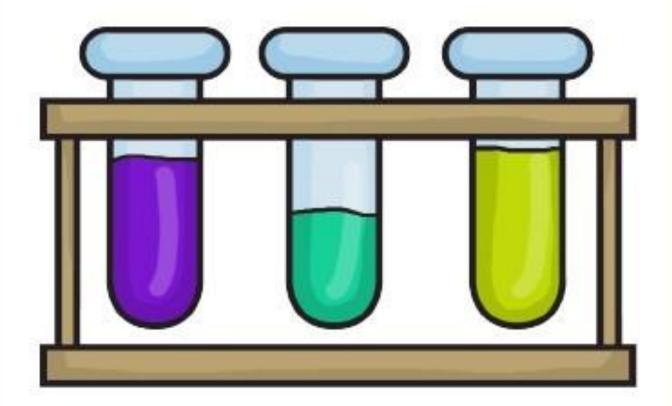
MATTER AT HOME

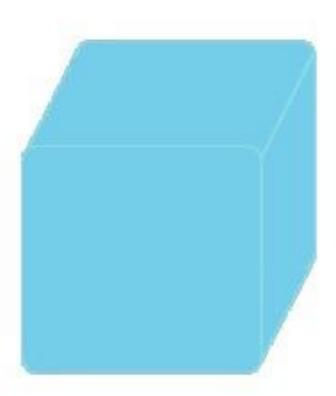


Matter



Matter is anything that has a mass and takes up space.

Solid



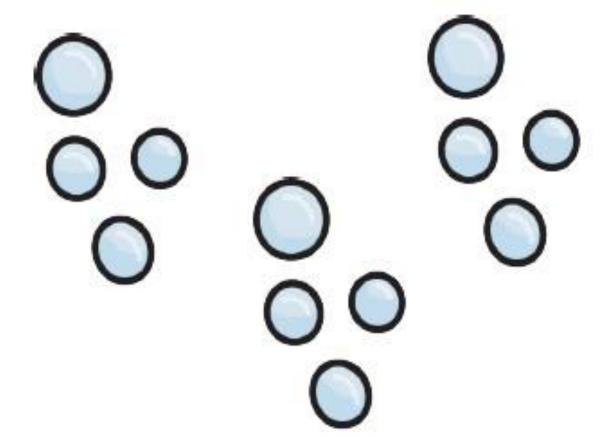
A solid is a state of matter. Solids maintain their shape and cannot be poured.

Liquid



A liquid is a state of matter. A liquid can be poured and takes the shape of the container they are in.

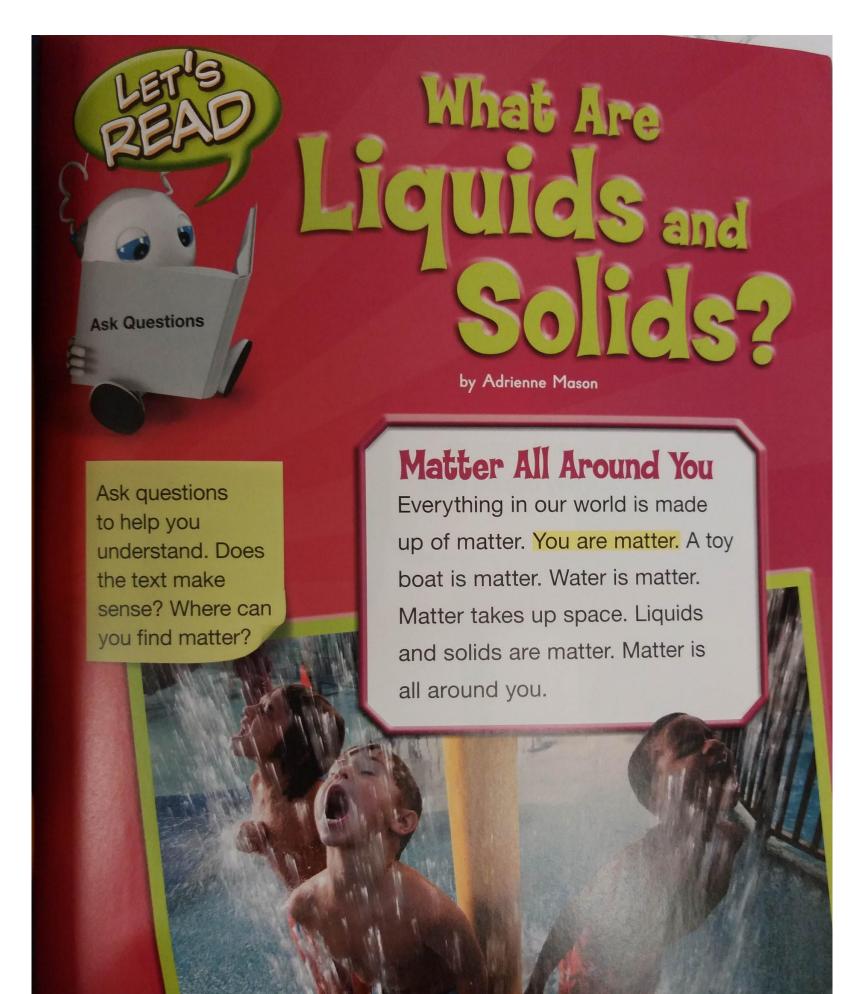
Gas

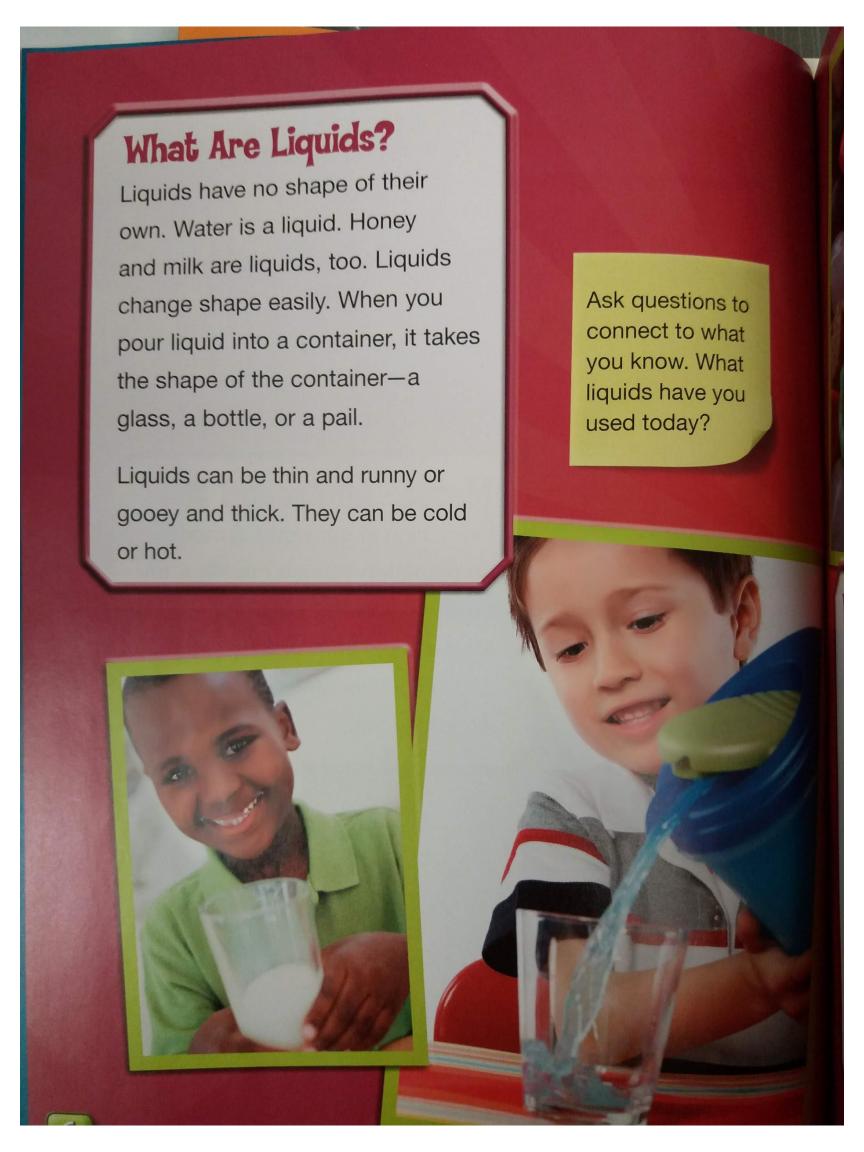


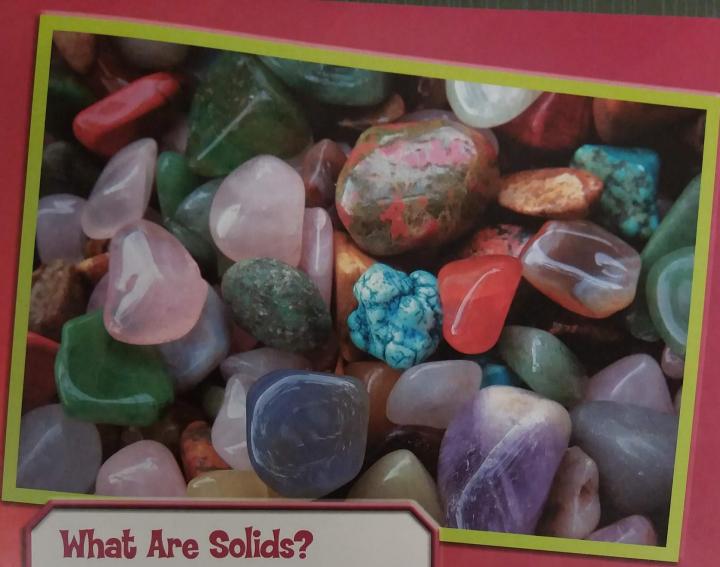
A gas is a state of matter. A gas does not have its own shape and it flows freely on its own.



First and Second Grade Science SOLIDS AND LIQUIDS







Solids have their own shape.
Rocks are solids. Hats and skipping ropes are solids, too.
Solids do not change shape easily. Some solids will change shape when you push or pull them. You can

stretch an elastic band. When you let it go, it takes its own shape again. Ask questions to get more information.
What other solids might change shape when you push or pull them?





Some solids change into liquids when they warm up.
When a solid snowflake lands on your warm tongue, it melts and changes into liquid water.

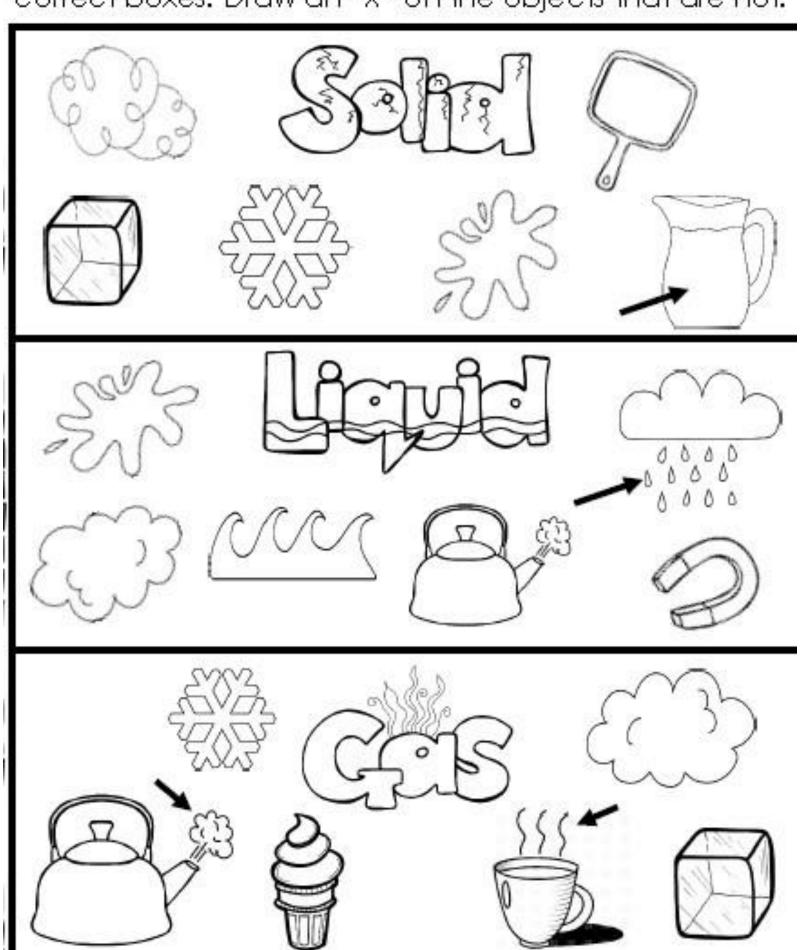
Ask questions to connect to what you know. When have you seen solids change when they warm up?

Freezing

Some liquids change into solids when they cool down. Because it's cold outside, the water in this pond has turned into ice.

	4 4 44
States of	Matter
	states of

Color the objects that are a solid, liquid or gas in the correct boxes. Draw an "X" on the objects that are not.



What Happens When...

YOU DO DIFFERENT THINGS TO LIQUIDS AND SOLIDS?

LIQUIDS

SOLIDS

1.)	When you POUR a
	liquid it:
2.)	When it gets colder,

a liquid will:

and become a:

1.) when you BREAK a solid it:

2.) When it gets hotter, a solid will:

and become a:

1.) I predict that when Ms. M hits the ice, it will:

2.) My prediction was CORRECT / INCORRECT.

Solids and Liquids in the Natural Environment

The natural environment includes things that are not made by humans such as forests. Make a list of solids and liquids that can be found in the natural environment.

Write some examples of liquids:

Solids and Liquids in the Built Environment

The built environment is made up of things that are built by humans such as schools. Make a list of solids and liquids that can be found in the built environment.

Write some examples of solids:	Write some examples of liquids:

Solids and Liquids Menu

Cut and paste the menu items into either solids or liquids.

Solids		Liquids
Hot dog	Milk	Chocolate Bar
Hot dog Orange juice	Milk	Chocolate Bar Water

Investigating Liquids and Solids

When solids mix with liquids a MIXTURE is formed. When a solid dissolves in a liquid it forms a SOLUTION. This happens because the solid is SOLUBLE.

Let's test to see what solids will dissolve in a liquid. It is dissolved when the solid is mixed with the liquid and the solid becomes part of the liquid. The solid will mix completely with the liquid. The solids are just suggestions and you can use what you wish from home. The liquid can be water.

Solid	Prediction Yes or No	Did it dissolve? Yes or No
salt		
oatmeal		
molasses		
cake sprinkles		
hot chocolate mix		
pepper		

Buoyancy



Buoyancy is the ability of an object to float in water or air.



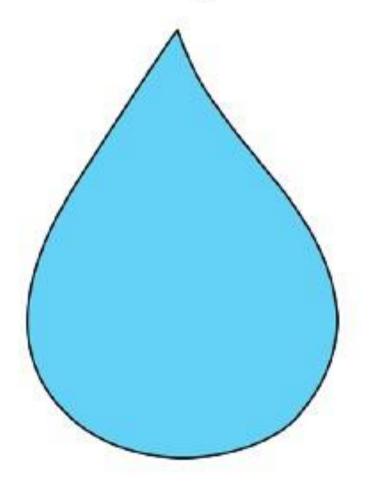
SINK OR FLOAT?

When a solid floats, it is BUOYANT. Boats, rafts and other things on water are buoyant, however, not all solids float.

Predict if the solids listed below will sink or float. Test the solids below in water. You can use whatever materials you wish.

Solid	Prediction	Observation
marble		
coin		
yarn		
paper		
button		

Absorption



Absorption is the process of one thing becoming part of another thing.



SOAK IT UP!

What a mess... There is water everywhere! How will you clean it up? Materials that soak up liquids are ABSORBENT. Not all solids can absorb liquids. Some solids repel liquid. REPEL means to push away.

Circle what you think will happen with the following solids. Test them

after.

Solid	Prediction		Observation	1
paper	absorb	repel	absorbs	repels
sponge	absorb	repel	absorbs	repels
plastic	absorb	repel	absorbs	repels
tin foil	absorb	repel	absorbs	repels
cloth	absorb	repel	absorbs	repels

What happened?

Rank the solids from most absorbent to least absorbent.

1			
2.			
3.			
4			
5.			

Liquids Race

Use liquids of different flow (ketchup, oil, water, syrup) and see which ones flow faster and slower. You can simply take a piece of thicker cardboard, hold it at an angle and pour a little of the liquid from the top.

Liquid	Prediction	Fast/Slow	Rank (fastest to slowest)
Water			
Oil			
Molasses			
Ketchup			

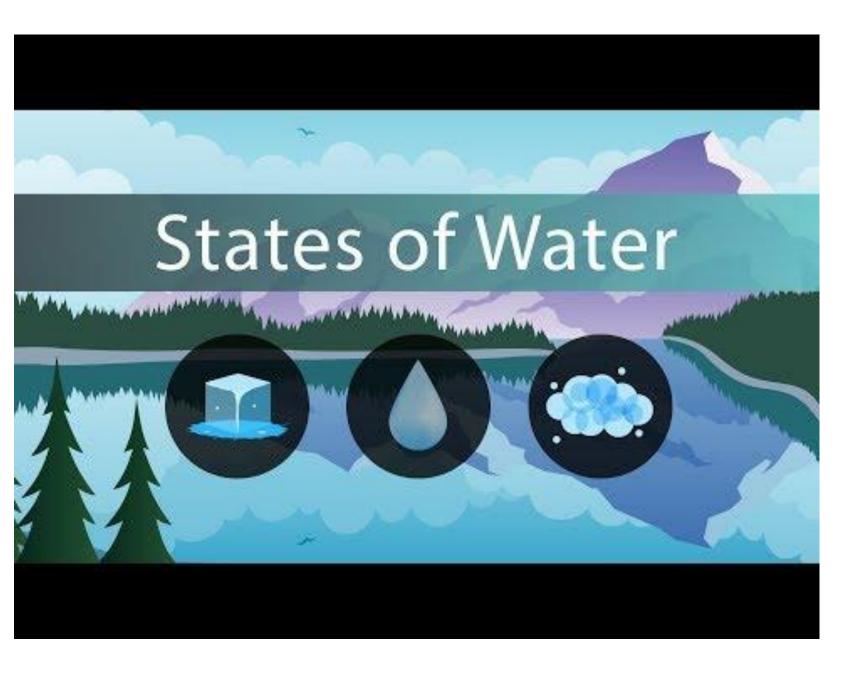
Do All Liquids Mix?



Try it out yourself...with Mom or Dad!

Which Liquid Flows Faster?

Liquids all flow. However some liquids flow faster than others. This is because some liquids are very thick and some liquids are very runny.
Put a drop of each liquid at the top of the tray. Tip the tray. Record your observations.
Which liquid will move the fastest?
Why?
Which liquid will move the slowest?
Why?



liquid: flows and takes the shape of any container; ex.
 drinking water, pools, oceans

-solid: called ice, turns to ice by freezing

-gas: called water vapour, turns into a gas when heated; ex. boiling a pot of water

LIQUID Water	SOLID Water
Key Properties 1.) Liquid water can be 2.) Liquid water takes the of its container.	Key Properties 1.) Solid water (ice) be poured 2.) Solid water (ice) take the shape of its container.
3.) Liquid water will when it is below 0 C and become	3.) Solid water (ice) will when it is above 0 C and become

WORD BANK

doesn't does water freeze can't melt ice water

Hazardous Household Product Symbols

Some matter is not safe for us to touch with our hands, to smell or to taste. These substances have symbols that tell us that they are not safe for us. Take a look at the symbols below.



This symbol means that the product is flammable. This means that flahe product is near heat, flames or sparks the product will eatch on fire.



This symbol means that the product is posonous. This means that I a person linguists the product in will cause liness on senously harm the individual.



This symbol means that the container that the product is more sometimes even the product is explosive. This means that if the container or product is smashed or dropped to could explode.



This symbol means that the product is corrosive. This means that Cithe product gets on the skin of a person or Cithe person rigosis the product will burn the skin, eyes, throat or stomach.

Hazardous Household Product Symbols

Write what each symbol means in the space provided.









Use the word bank below to fill in the blanks.

If the symbol siman octagon it means the lilling is dangerous.

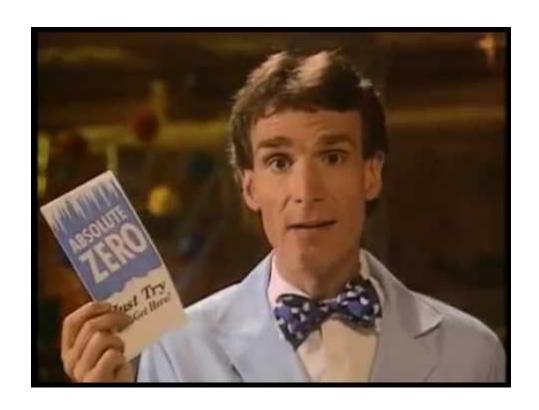
If the symbol is in an upside down thangle it means the substituting a dangenous.

Word Bank

product

container

Extra Video Resources





Magic School Bus: Season 4 Episode 1- Meets Molly Cule (Can be found on Netflix)