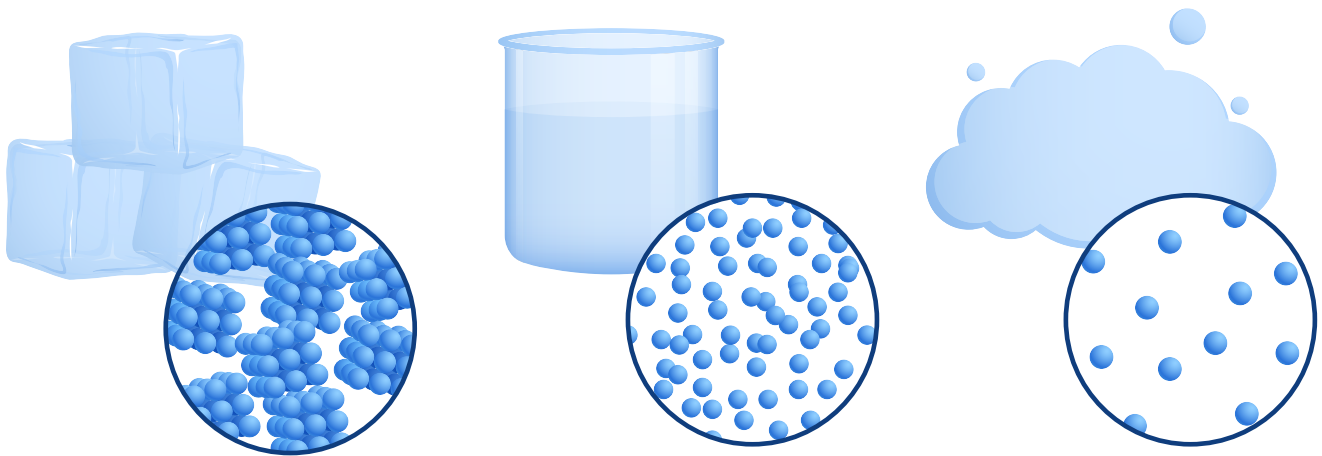


States of Matter

Gases, liquids and solids are all made up of microscopic particles, but the behaviors of these particles differ in the three phases. The following figure illustrates the microscopic differences.



SOLID

LIQUID

GAS

PARTICLES IN A:

- **gas** are well separated with no regular arrangement.
- **liquid** are close together with no regular arrangement.
- **solid** are tightly packed, usually in a regular pattern.

PARTICLES IN A:


- **gas** vibrate and move freely at high speeds.
- **liquid** vibrate, move about, and slide past each other.
- **solid** vibrate (jiggle) but generally do not move from place to place.


Liquids and solids are often referred to as condensed phases because the particles are very close together.

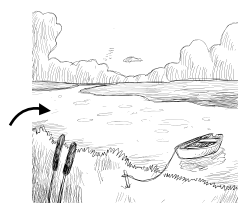
Name: _____

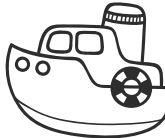
States of Matter

Directions: Cut out the word cards at the bottom and glue them in correct places.


1. 
book


5. 
rain

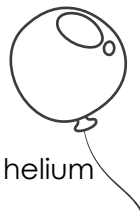
2. 
lake

6. 
boat

3. 
smoke

7. 
water

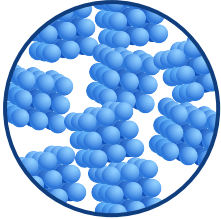

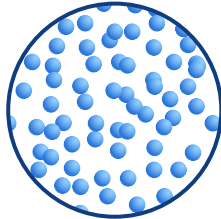

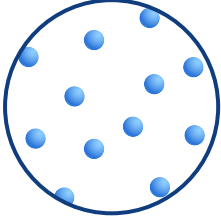

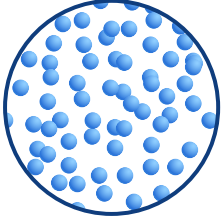

4. 
ice

8. 
helium

solid	liquid	gas	solid
liquid	gas	solid	liquid

Name: _____

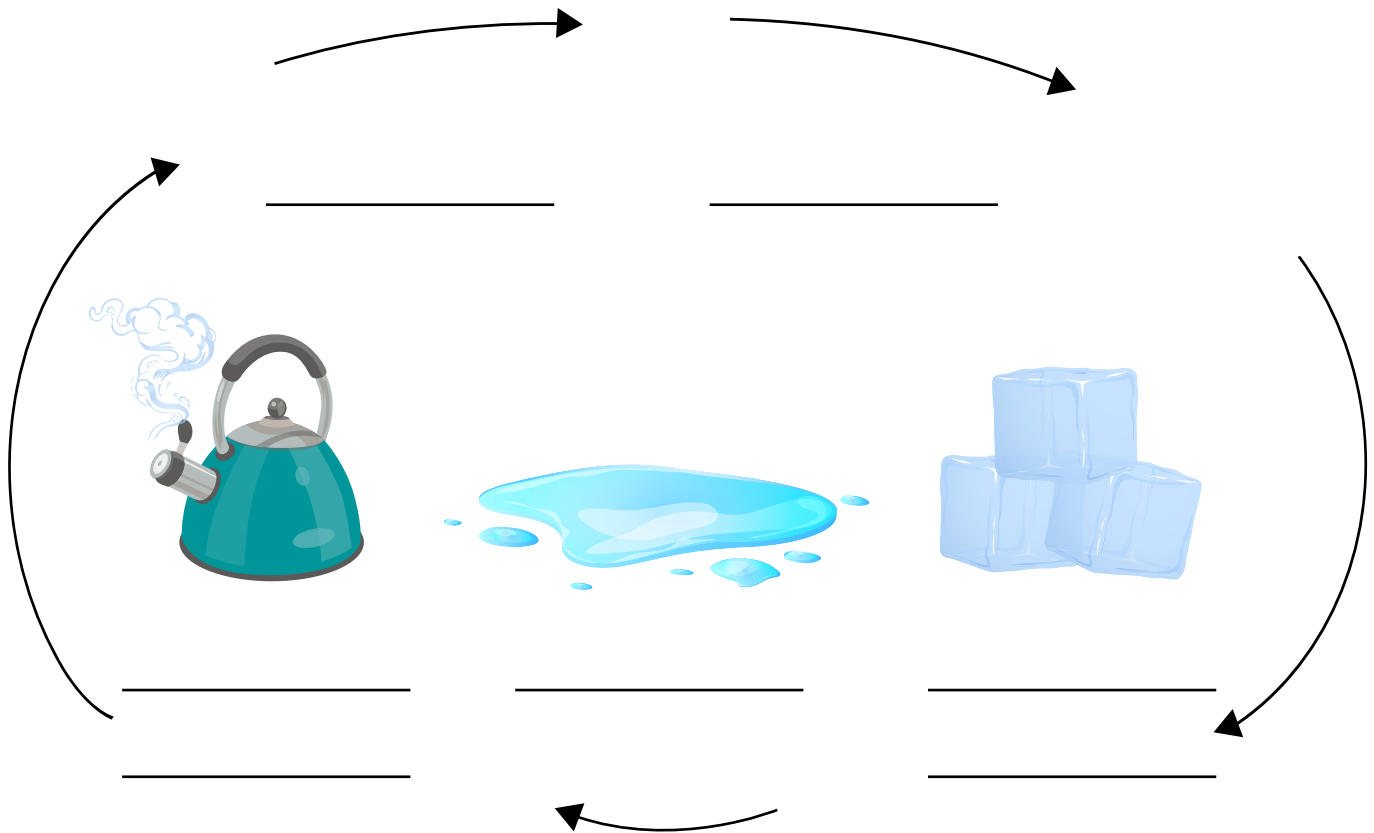
The Changing State of Matter

STATE	ADD	NEW STATE	EXAMPLE
 Solid	 Heat		
 Liquid	 Heat		
 Gas	 Cold		
 Liquid	 Cold		

Name: _____

Changing State of Water

Directions: Fill in the missing words from the word bank below.



WORD BANK

condensation

melting

evaporation

freezing

solid

liquid

Name: _____

Matter Test

Directions: Fill in the missing words from the word bank below.

Liquids x4	water	solids x4	liquid x2	solid x2	gas x2	
flowing	flat	gases	melt	volume x2	freeze	shape x2

1. There are three states of matter _____
_____ and _____.
2. _____ have a fixed shape.
3. _____ take the _____ of their
container and they also have a _____ top.
4. Some _____ can _____ and become
_____.
5. Liquids _____ at low temperatures and become
_____.
6. Two states of matter you can see are _____ and
_____.
8. _____ don't have _____ or _____.
9. Depending on the temperature _____ can exist in a
_____ or _____.
10. Even when a _____ changes shape, the
_____ remains the same.

Name: _____

Sort the Matter

Directions: Cut and paste the words in the correct column.

Solid	Liquid	Gas

brick

wind

water

rock

glass

smoke

juice

table

steam

air

river

tree

milk

rain

apple

Name: _____

Lets Draw!

Directions: Draw pictures and use words to describe the three states of matter for water.

Water as a Solid

Water as a Liquid

Water as a Gas