What's the Matter?

A SIMPLY SWANK

BIBLE

Education

Name:

Grade:

Name _____

Date _____

What's the Matter?

God created everything on earth. He created everything with something called matter. Learning about matter helps us appreciate, value and understand everything that God created. Matter is the building blocks of everything we see.

Stuff God created matters. Everything we see see and touch is all made with matter. Matter has mass and takes up space by having volume. Yup, that means you are matter!

You matter to God. You are valuable to Jesus. He died to save you. He conquered death and is alive. Jesus loves you so much that he offers you eternal life, so you do not have to die either. You can live forever with a Father who loves you more than **anyone** could ever love you. All you have to do is **believe** that Jesus is the Only Son of God. The Bible promises that if you really believe in Jesus, you are saved. Enjoy your life with Jesus, who created all that matters! yay!

Name _____

Date _____

What's the Matter?

God created everything on _____, He created everything with something called matter. Learning about matter helps us appreciate, value and understand everything that _____ created. Matter is the building blocks of everything we _____.
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You matter to _____. You are valuable to Jesus. He died to _____ you. He conquered death and is alive. Jesus loves you so much that he offers you eternal life, so you do not have to die either. You can live forever with a Father who loves you more than **anyone** could ever love you. All you have to do is **believe** that Jesus is the _____ Son of God. The Bible promises that if you really believe in Jesus, you are saved. Enjoy your life with Jesus, who created all that matters! yay!

Name _____

Date _____

Matter changes. God does not

the Bible tells me so...

Hebrews 13:8
Jesus Christ is the same yesterday and today and forever.

Romans 12: 2
Do not be conformed to this world, but be transformed by the renewal of your mind, that by testing you may discern what is the will of God, what is good and acceptable and perfect.

Philippians 4:6-7
Do not be anxious about anything, but in everything by prayer and supplication with thanksgiving let your requests be made known to God. And the peace of God, which surpasses all understanding, will guard your hearts and your minds in Christ Jesus.

2 Corinthians 4:16-18
Therefore we do not lose heart. Though outwardly we are wasting away, yet inwardly we are being renewed day by day. For our light and momentary troubles are achieving for us an eternal glory that far outweighs them all. So we fix our eyes not on what is seen, but on what is unseen, since what is seen is temporary, but what is unseen is eternal.

James 1:17
Every good gift and every perfect gift is from above, coming down from the Father of lights, with whom there is no variation or shadow due to change.

Name _____

Date _____

Matter changes. God does not

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Hebrews 13:8
Jesus Christ is the ____ yesterday and today and forever.

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Therefore we do not lose heart. Though outwardly we are wasting ____, yet inwardly we are being renewed ___ by day. For our light and momentary troubles are achieving for us an eternal _____ that far outweighs them all. So we fix our eyes ___ on what is seen, but on what is unseen, since what is seen is temporary, but what is unseen is _____.

James 1:17
Every ____ gift and every perfect gift is from above, coming down from the Father of _____, with whom there is __ variation or shadow due to _____.

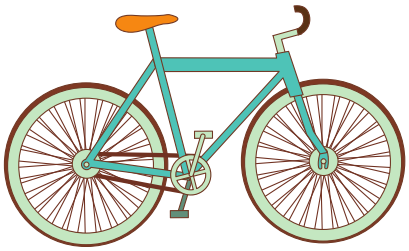
Name _____

Date _____

MASS

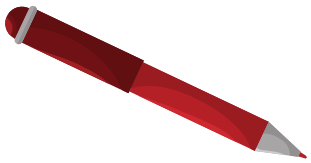
Circle the object that weighs more than the other.

a.

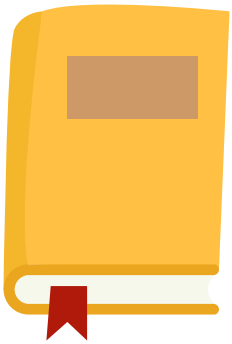


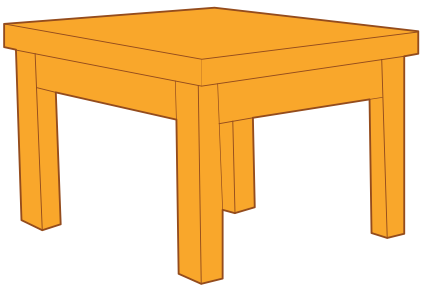
b.

c.



d.





Name _____

Date _____

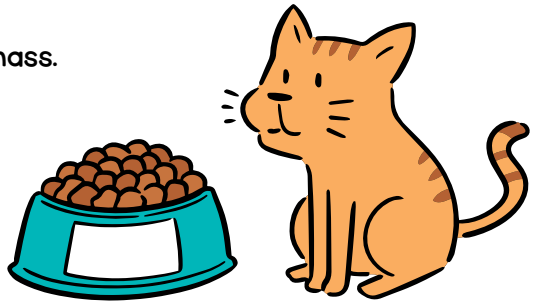
MASS ESTIMATION

The gram (g) and the kilogram (kg) are metric units of mass.

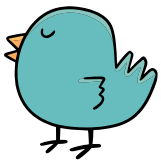
A piece of dry cat food is about one gram.

A kitten is about one kilogram.

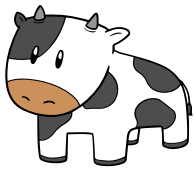
1 kg = 1000 g



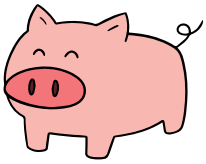
Circle the more sensible measure.



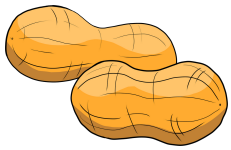
3 g 3 kg



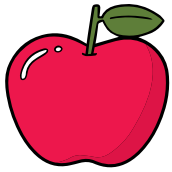
700 g 700 kg



300 g 300 kg



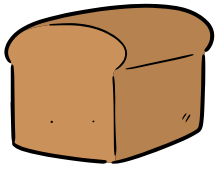
4 g 4 kg



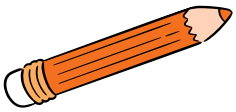
90 g 90 kg

2 g 2 kg

30 g 30 kg



750 g 750 kg



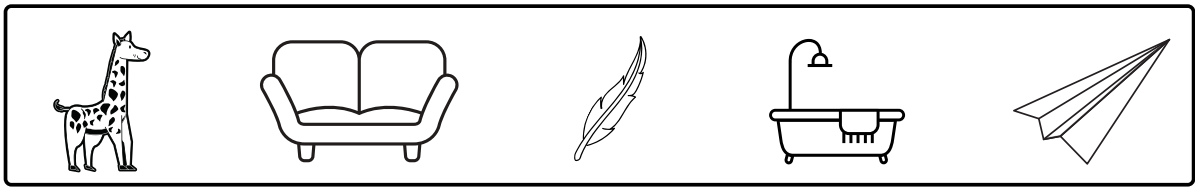
7 g 7 kg

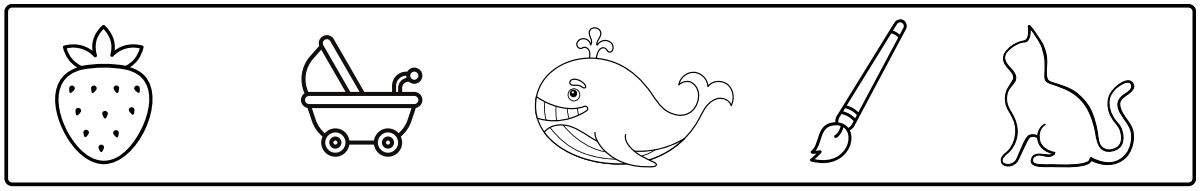
Name _____

Date _____

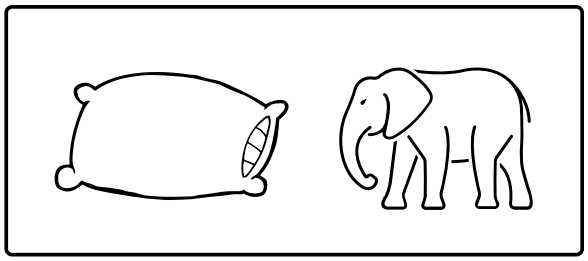
MASS

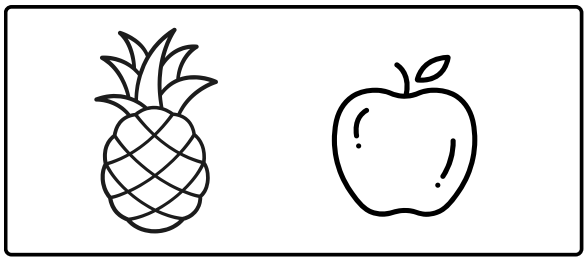
1 Color the two *lightest* items in each set: /4



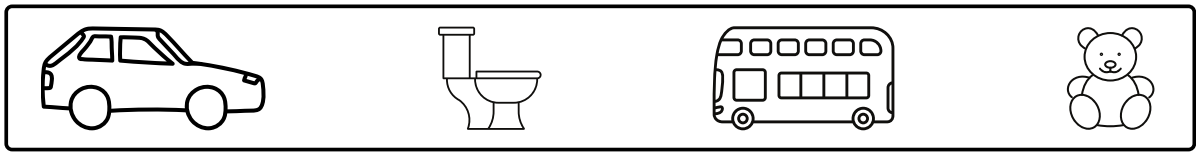


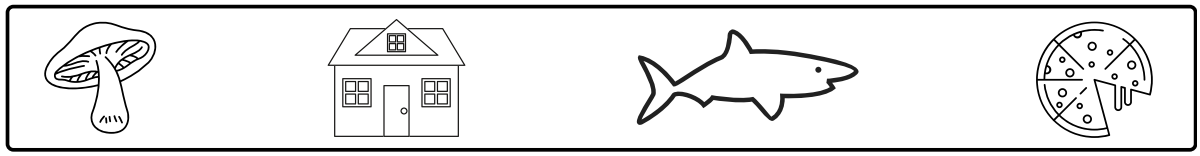
2 Color the *heavier* item in each pair: /2





3 Color the *heaviest* item in each set: /2



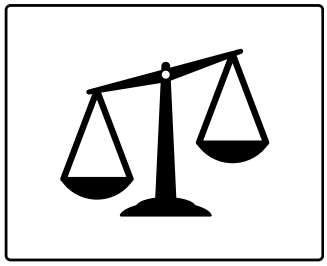


Name _____

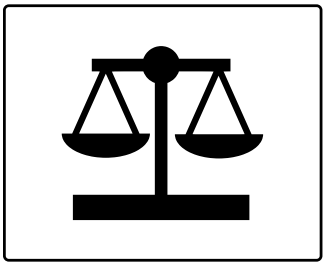
Date _____

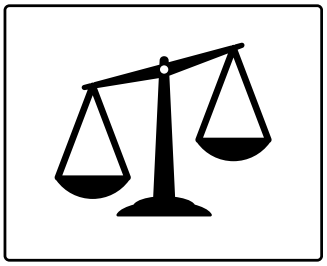
MASS

4 Circle the heavier sides of each pan balance: /2



5 Circle the scales where the items being measured are the same mass: /1





6 A flower and a cat were placed on separate sides of a pan balance. Draw a picture below to represent the mass difference. /3

Name _____

Date _____

MASS

7 Draw two items with similar masses in each set: /2

8 Draw two items that are light in mass: /2

9 Draw two items that are heavy in mass: /2

Name _____

Date _____

MASS

10 Describe what would happen to a pan scale if you put a brick in one pan and a paperclip in the other. /6

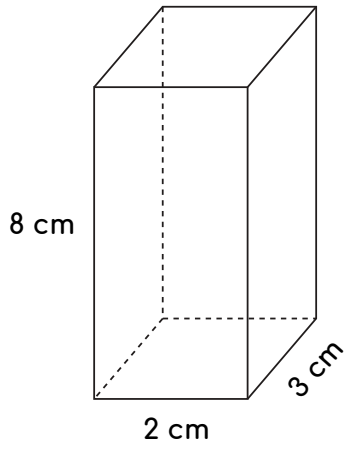
- Explain your reasoning using words
- Draw your prediction

Name _____

Date _____

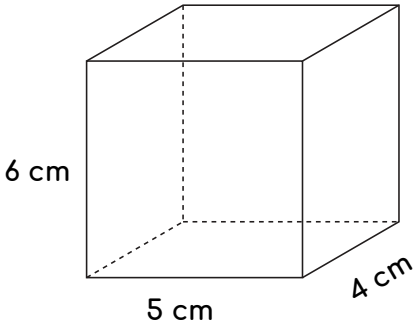
Find the Volume

Find the volume of the following prisms.



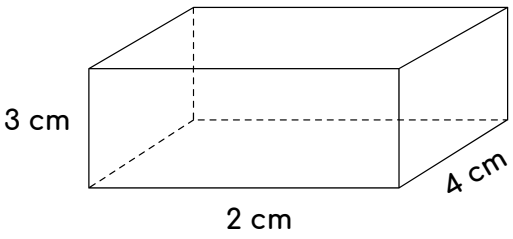
l × w × h

Volume _____



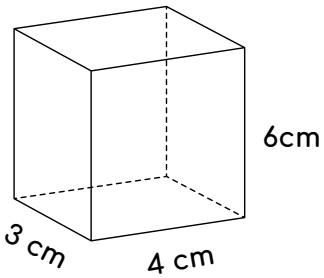
l × w × h

Volume _____



l × w × h

Volume _____



l × w × h

Volume _____

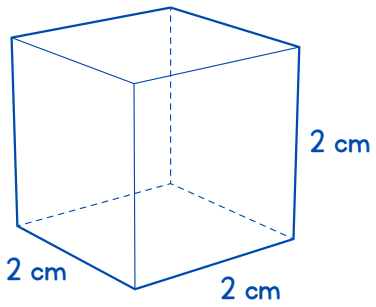
Name _____

Date _____

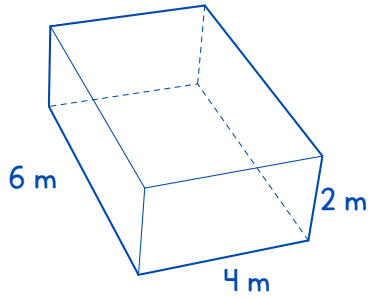
Finding Volume

To find the volume of a rectangular prism, you multiply the length x width x height.

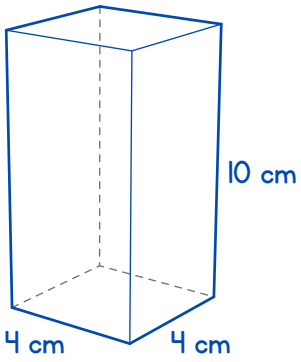
Find the volume of the following rectangular prisms.



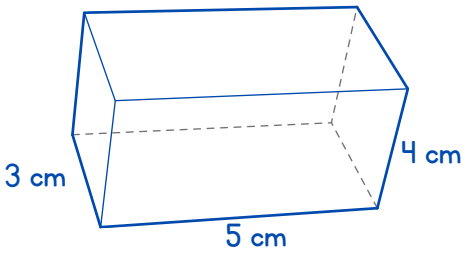
Volume _____



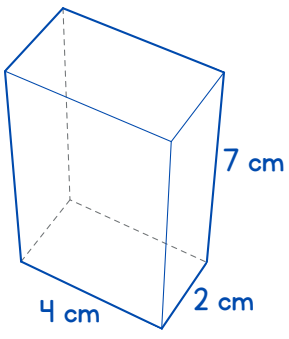
Volume _____



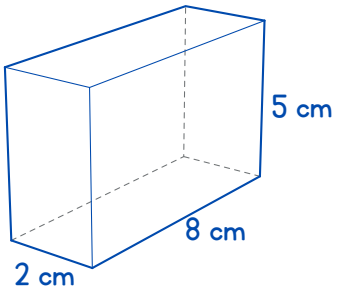
Volume _____



Volume _____



Volume _____



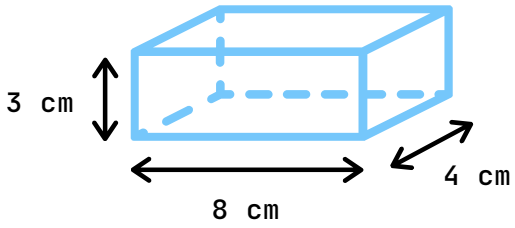
Volume _____

Name _____

Date _____

COMPUTING FOR VOLUME

The formula for getting the volume of a rectangular prism is L x H x W. Let's practice computing for volume with the following problems:

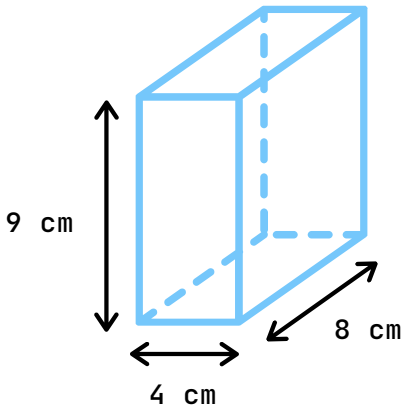


L H W

[ ] x [ ] x [ ]

Volume:

[ ]

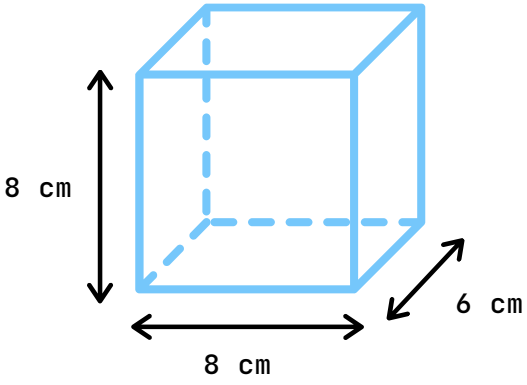


L H W

[ ] x [ ] x [ ]

Volume:

[ ]

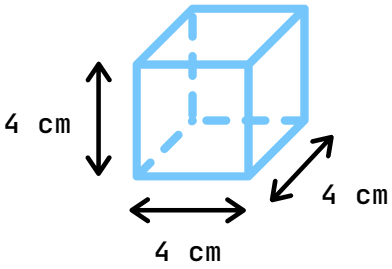


L H W

[ ] x [ ] x [ ]

Volume:

[ ]



L H W

[ ] x [ ] x [ ]

Volume:

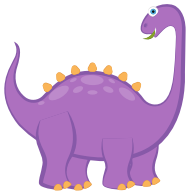
[ ]

Name _____

Date _____

HEAVIER or lighter

Cut and paste the words heavier or lighter to make each sentence true.

A  is _____ than a  bird.

dinosaur

A  is _____ than a  computer.

book

A  is _____ than a  tree.

leaf

A  is _____ than a  toy car.

car

lighter	**heavier**	lighter	**heavier**

Name _____

Date _____

WHAT IS A SOLID?

- a solid is mostly stiff or rigid, and it has a certain shape. A solid is contained of atoms and molecules that are connected to one another which supports it's solid shape

WHAT IS A LIQUID?

- a liquid moves and flows and has volume. A liquid's atoms and molecules are loosely connected or bonded to each other

WHAT IS A GAS?

a gas has no shape and no volume

Name _____

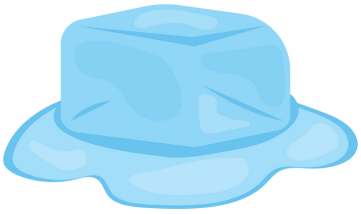
Date _____

CHANGES IN STATES OF MATTER

Part I: Draw a line to match the change in state with its description.

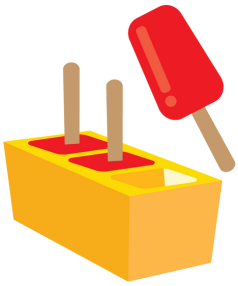
melting ●	● gas to liquid
freezing ●	● liquid to gas
evaporation ●	● liquid to solid
condensation ●	● solid to liquid

Part II: Label the following changes in state.



ice cube left out

_____



juice placed in a freezer

_____

drying laundry

_____

formation of dew drops

_____

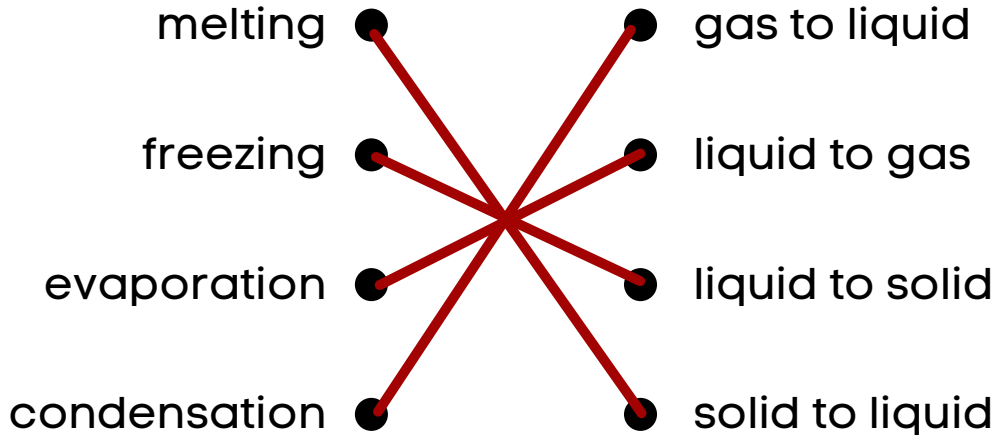
Name _____

Date _____

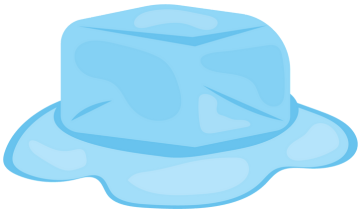
CHANGES IN STATES OF MATTER

Part I: Draw a line to match the change in state with its description.

Answer Key

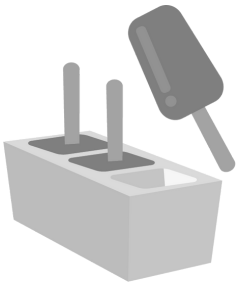


Part II: Label the following changes in state.



ice cube left out

melting

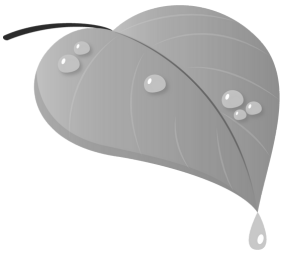


juice placed in a freezer

freezing

drying laundry

evaporation



formation of dew drops

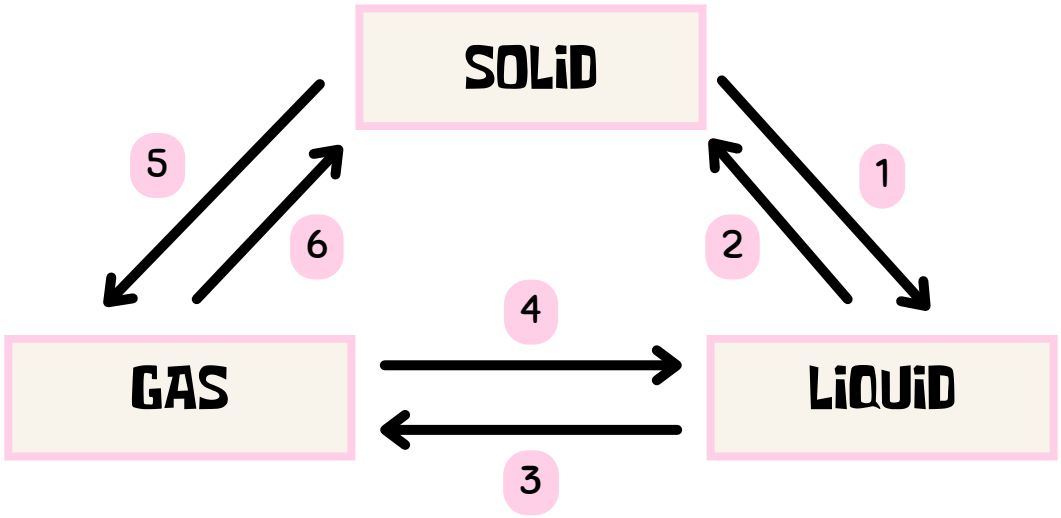
condensation

Name _____

Date _____

CHANGE OF STATE

Use the diagram below to answer the following question about change of state!



Name the change of state of matter from:

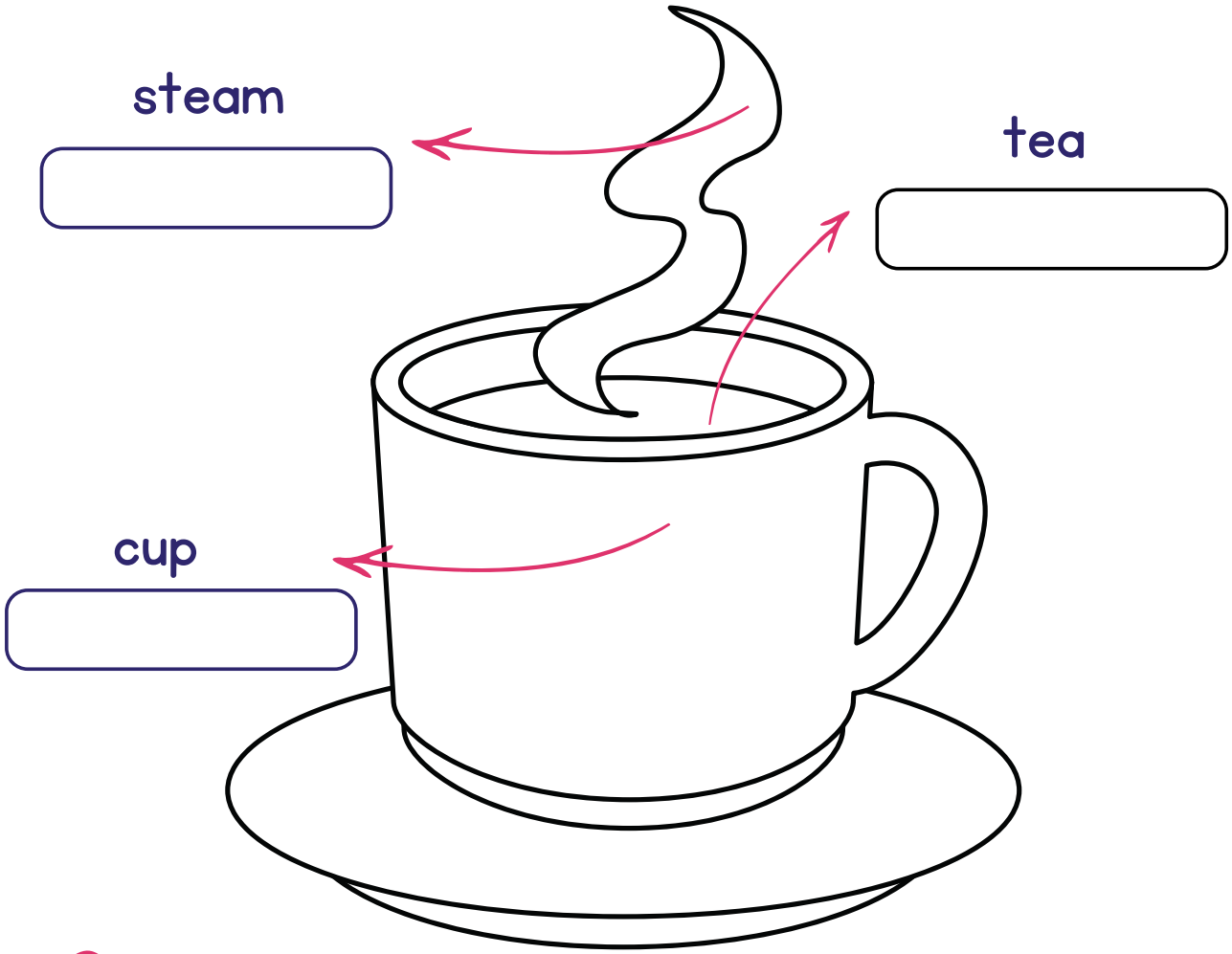
1. Solid to liquid	1
2. Liquid to solid	2
3. Liquid to Gas	3
4. Gas to liquid	4
5. Solid to gas	5
6. Gas to solid	6

Name _____

Date _____

States of Matter

Color the picture. Cut out each state of matter below the page and paste them in their right boxes.



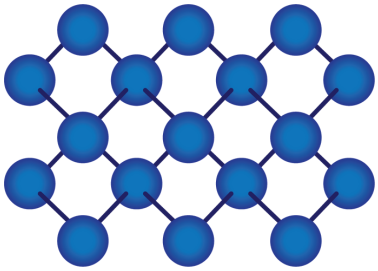
liquid solid gas

Name _____

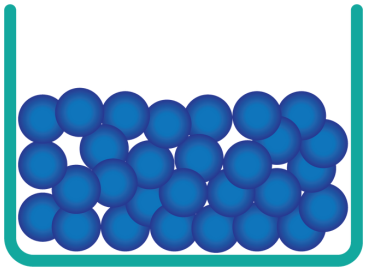
Date _____

STATES OF MATTER

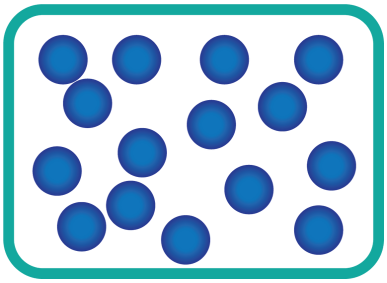
Describe the arrangement of atoms in each of the following state.



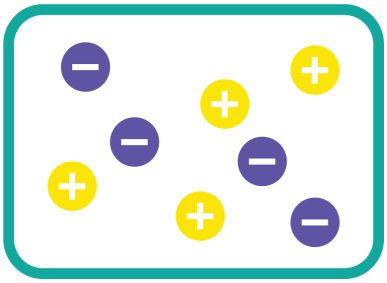
solid



liquid



gas



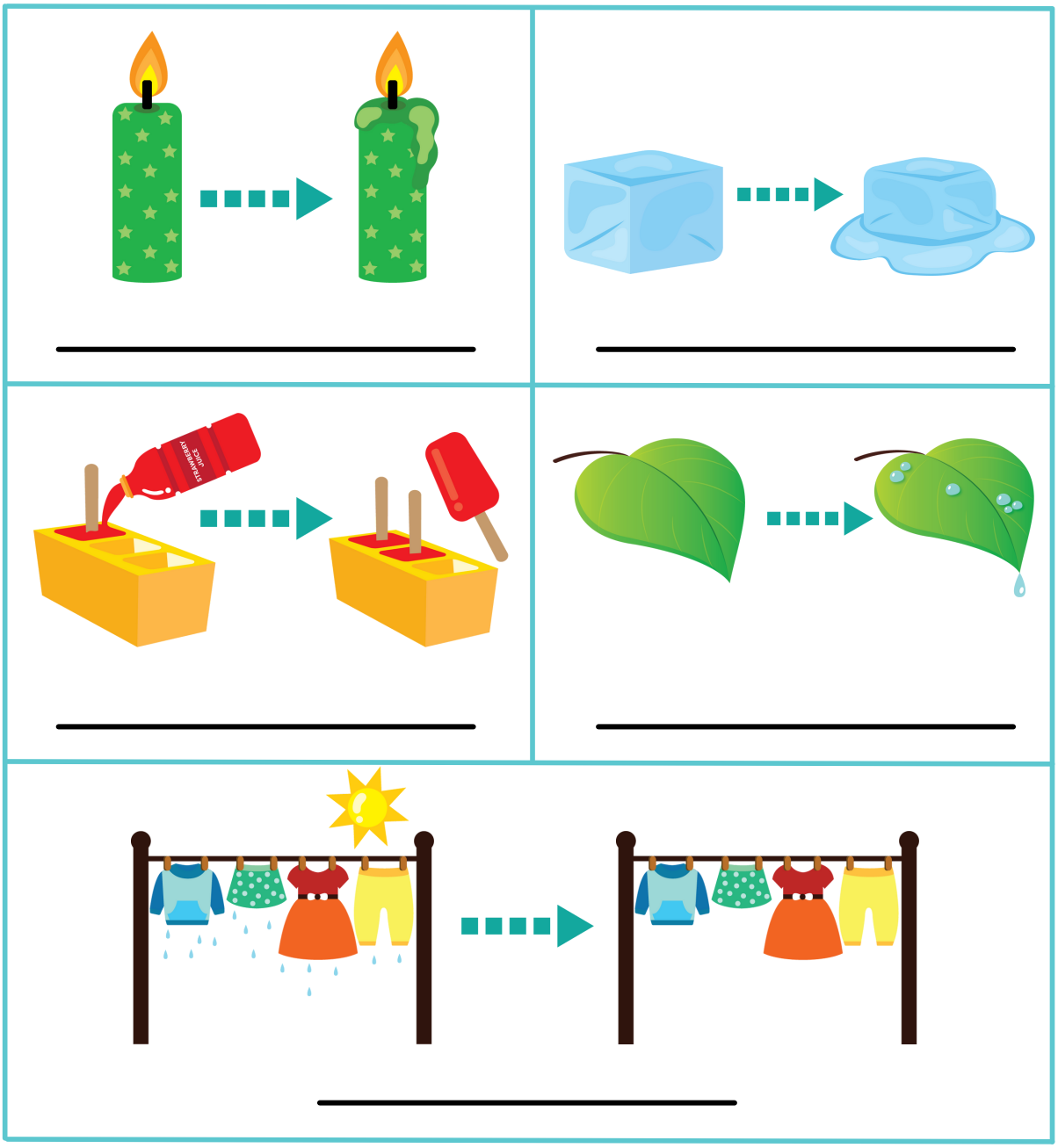
plasma

Name _____

Date _____

CHANGES IN STATES OF MATTER

Identify and label the following changes in states of matter.



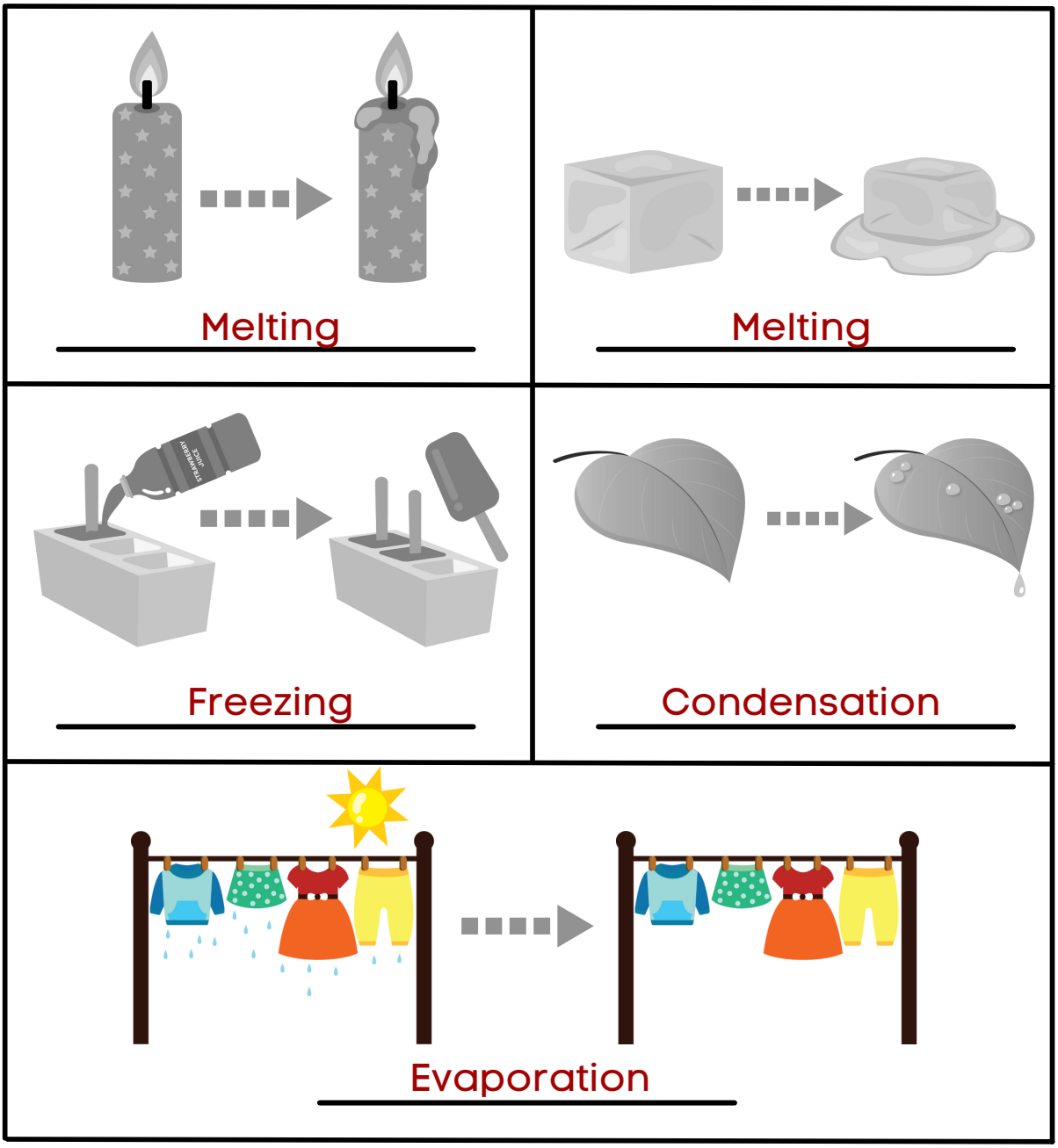
Name _____

Date _____

CHANGES IN STATES OF MATTER

Answer Key

Complete the diagram below by labelling the changes in state.



Name _____

Date _____

STATES OF MATTER

Complete the following sentences using the correct state of matter:

Solid **Liquid** **Gas**

The balloons are filled with _____

Rain is a _____

Smoke is a _____

The books are a _____

The steam is a _____

The tea is a _____

The mug is a _____

Name _____

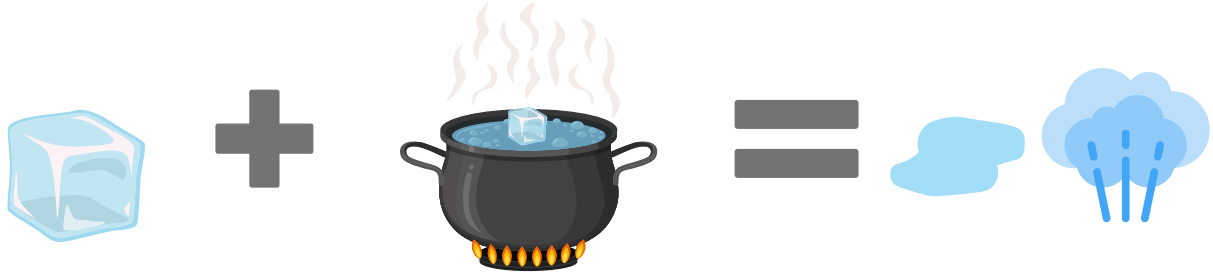
Date _____

SOLIDS AND LIQUIDS

changing states

I can identify conditions in which the states of liquids and solids change.

Solids and liquids can change from one form to the other. Let's use water as our example. Water as a solid is called ice. When you put an ice cube in boiling water, the ice begins to melt back to it's liquid state and also evaporates and turns into a gas which is called steam. Water is a great way of explaining all states of matter: liquid, solid and gas.



solid **heat** **liquid & gas**

Draw other examples of solids that you can think of that change into liquids when heated?

Name _____

Date _____

States of Matter

Cut and paste the word into the correct column.

solid	liquid	gas


wind


shoe


smoke


juice

soda


wood


book


apple


river


rain

soap


air

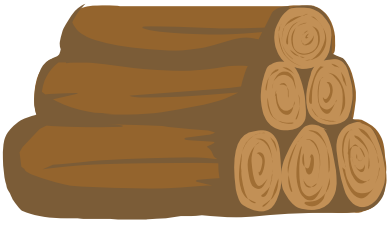
Name _____

Date _____

State of Matter

Write solid, liquid, or gas.

_____



_____

_____

_____

_____

_____

Name _____

Date _____

STATES OF MATTER

Look at the pictures and mark the materials with **S** (solid), **L** (liquid), and **G** (gas).

hot air balloon ☐

wood ☐

plastic ☐

metal ☐

oxygen ☐

rock ☐

water ☐

steam ☐

tea ☐

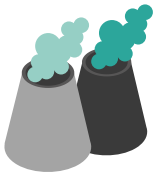
Name _____

Date _____

STATES OF MATTER

Cut out and paste the pictures on the chart.

SOLID	LIQUID	GAS



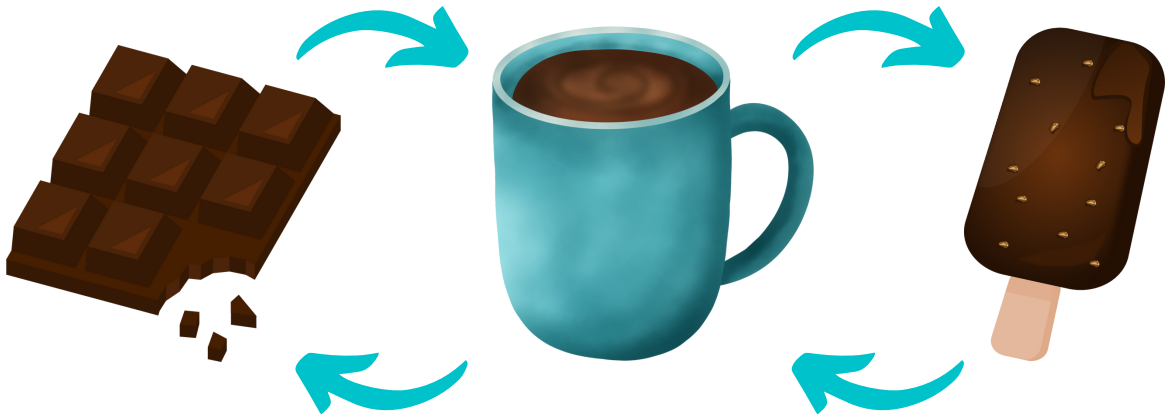


Name _____

Date _____

CHANGING STATES OF MATTER

Look at the picture below and complete the sentences with the words in the box.



solid / liquid / melting / freezing

When you heat chocolate, it becomes a ....., you can drink it. ..... occurs when a solid is heated and turns into a liquid. When you cool the melted chocolate, it becomes a ..... again, you can eat it. ..... occurs when a liquid is cooled and turns into a solid.

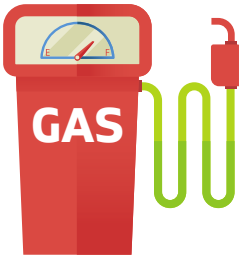
Name _____

Date _____

STATES OF MATTER

Cut out the pictures below and paste into their correct column.

Solid	Liquid	Gas



Name _____

Date _____

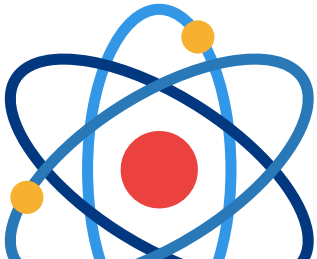
MATTER

SEARCH A WORD

M	A	T	T	E	R	T
L	S	O	L	I	D	G
I	S	P	A	C	E	A
Q	Y	R	E	A	S	S
U	G	A	T	O	M	D
I	V	O	L	U	M	E
D	I	M	A	S	S	T

Search for all the words in the list bellow:

- matter
- solid
- liquid
- gas
- atom
- volume
- mass
- space

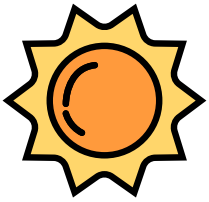


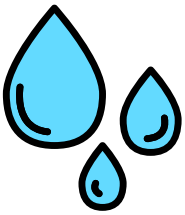
Name _____

Date _____

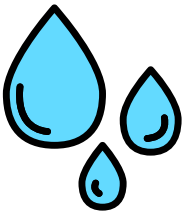
What's the Matter?

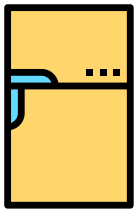
Show how matter changes by completing the puzzles below. What happens when you combine the things in the pictures? Draw the results!

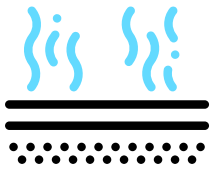
Ice +  Sun = _____

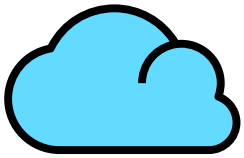


Water +  Fire = _____



Water +  Freezer = _____



Steam +  Cloud = _____