

# 4<sup>th</sup> Grade Science Remote Learning Packet

## Week 31



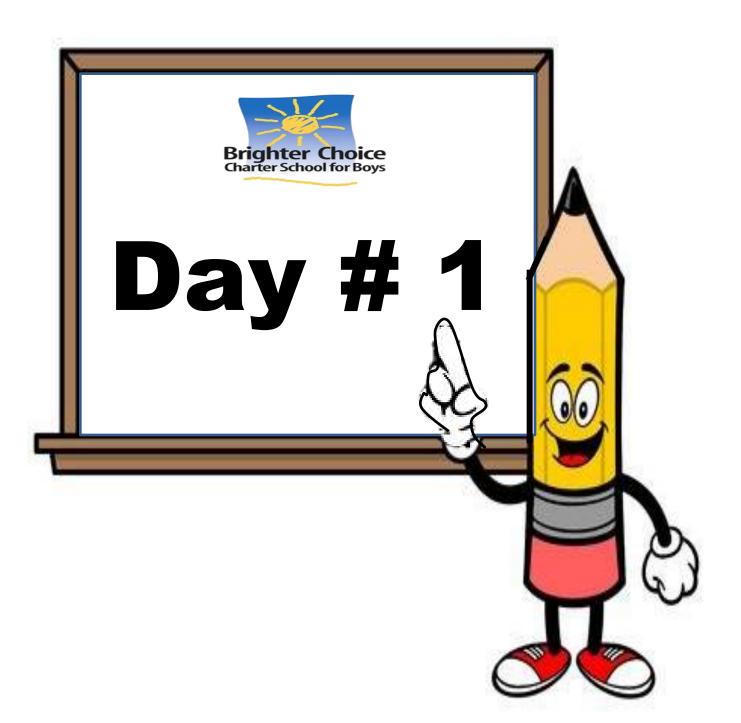
Dear Educator,

My signature is proof that I have reviewed my scholar's work and supported him to the best of my ability to complete all assignments.

(Parent	Signature)
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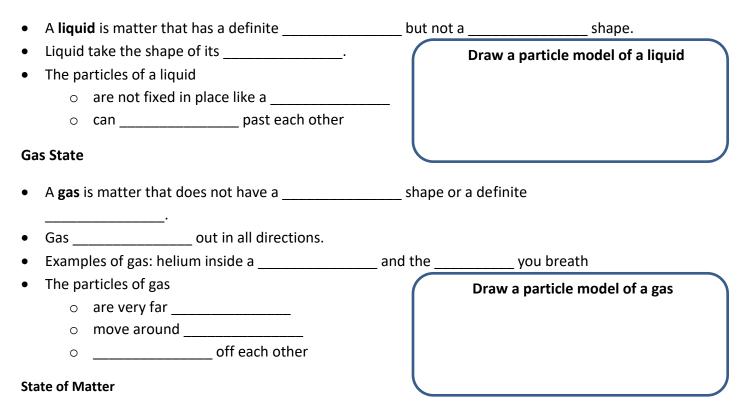
(Date)

Parents please note that all academic packets are also available on our website at <u>www.brighterchoice.org</u> under the heading "Remote Learning." All academic packet assignments are mandatory and must be completed by all scholars.



ame:	Week 31 Day 1 Date:		
CCS-B	Howard	Moreho	use Hampton
Matter: Solids, Liquids, and	Gases -Measurir	ng Propertie	S
<b>he question:</b> Take 30 seconds to think of your ninute to write your answer down. Once finishe ext set of directions.	-	• •	
/hat are some examples of a solid, liquid, and	gas?		
ow do you measure different properties?			
r <b>operties of Matter for Kids:</b> Jot down any no emembering the properties of matter.	tes you find will b	e helpful to	you in
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#### Liquid State

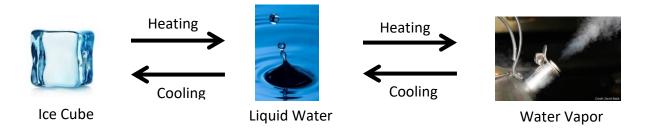


Solid	Liquid	Gas
Fixed	Fixed	can change
shape	can change	Shape can
Examples:, ball,	Examples: water,,	Examples, air, carbon dioxide,
chair, spoon	lemonade, tea	in a balloon

#### Changes in State

- You can \_\_\_\_\_\_ the size, shape, or form of \_\_\_\_\_\_.
- A **physical change** is a change in matter in which the kind of matter \_\_\_\_\_\_ the same; no new materials \_\_\_\_\_\_.
- You can observe many examples of matter changing from one form to \_\_\_\_\_\_.
  - ice cube (\_\_\_\_\_\_) melts→\_\_\_\_\_
  - pan of water (\_\_\_\_\_) into freezer →\_\_\_\_\_
  - puddle of water (\_\_\_\_\_) dries up →\_\_\_\_\_
- A change in matter from one \_\_\_\_\_\_ to another, such as liquid to solid is a change of state.
  - Solid changes state to a \_\_\_\_\_, it melts.
  - Heat energy the particles of the ice to speed up.

- Particles move \_\_\_\_\_\_
- Ice (solid water) turns into \_\_\_\_\_ water.
- The liquid water becomes hotter, the particles move \_\_\_\_\_\_
- Bubble of \_\_\_\_\_\_ form in the liquid and rise to the surface
- At the surface, the \_\_\_\_\_ disappears into the air. This is called
- Liquid water can change without boiling like in a water puddle when it changes from liquid to gas through \_\_\_\_\_\_.
- Water vapor changes back into liquid water through the process called
- As the particles in a liquid begin to cool they slow down, losing heat, and begin to change state from a liquid to a



**Coach Book—Measuring Properties pages 143-146:** *As we are reading, jot down notes and definitions from the book to help you study later for your exam.* 

### Measuring Length and Width

- You can use a \_\_\_\_\_\_ to measure how long and \_\_\_\_\_\_ something is.
- A meterstick is easy to use.
  - Make sure the end of the stick, or the zero \_\_\_\_\_, is \_\_\_\_\_, is \_\_\_\_\_\_
     at one edge of an object.
  - Lineup the meterstick with the other end.
  - Read the \_\_\_\_\_\_ that lines up with the other end.

#### **Measuring Area**

- An object's **area** is the \_\_\_\_\_\_ of space an object or material takes up.
- You can use a \_\_\_\_\_\_ to find area, but you must also do some
- First, measure the \_\_\_\_\_\_ and \_\_\_\_\_ of the tabletop.
- To find the area, \_\_\_\_\_\_ its length times its width (length X width = Area<sup>2</sup>)

- Area is always given in square \_\_\_\_\_, such as square centimeters.
- Examples
  - $\circ$  100 cm X 50 cm = 5000 cm<sup>2</sup>
  - $\circ$  80 cm X 40 cm = 3200 cm<sup>2</sup>

#### **Measuring Volume**

- Volume is the amount of \_\_\_\_\_\_ an object or material take up.
- You can make measurements with a \_\_\_\_\_\_ or meterstick to find the volume of a solid.
- You find volume by \_\_\_\_\_ length X width X height = Volume<sup>3</sup>
- Volume is often measured in \_\_\_\_\_\_ unites, such as cubic centimeters.
- Example
  - $\circ$  10 cm X 4 cm X 2 cm = 80 cm<sup>3</sup>
- You measure the volume of liquid using a measuring cup or a \_\_\_\_\_\_ cylinder.
- Pour the liquid into the cylinder, and then find the line that matches the level of the liquid.
- Eyes should be at the same \_\_\_\_\_\_ as the marks on the cylinder.

#### **Measuring Temperature**

- A thermometer is used to measure \_\_\_\_\_, or how warm something is.
- A thermometer can be used to measure the temperature of the air or another

#### Measuring Mass

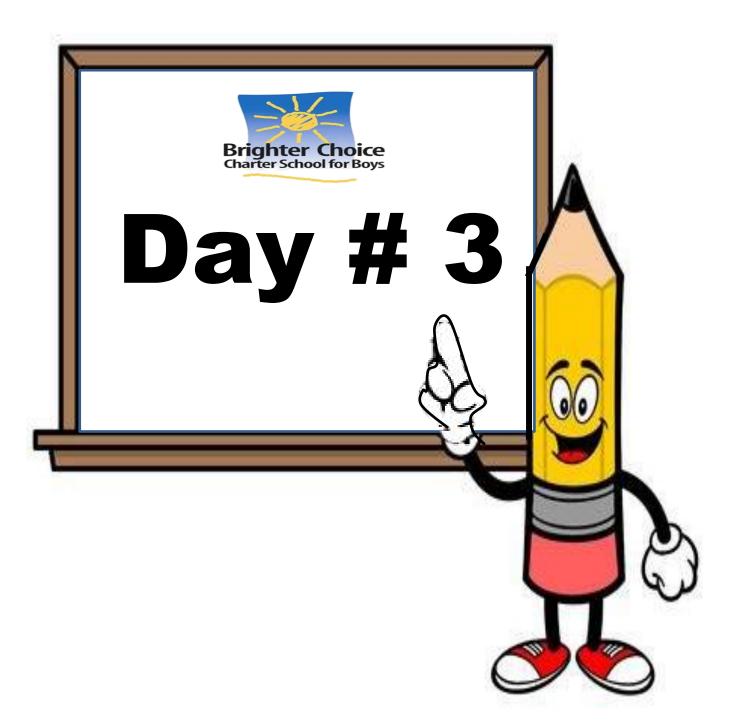
- Mass is the amount of \_\_\_\_\_\_ that make up an object.
- A pan \_\_\_\_\_\_ is used to measure mass.
- To use a balance
  - put an \_\_\_\_\_ on the left pan
  - add mass weights to the \_\_\_\_\_ pan until the pointer shows that the balance is \_\_\_\_\_\_
  - up the masses of all the mass weights to find the mass of the object

#### **Measuring Weight**

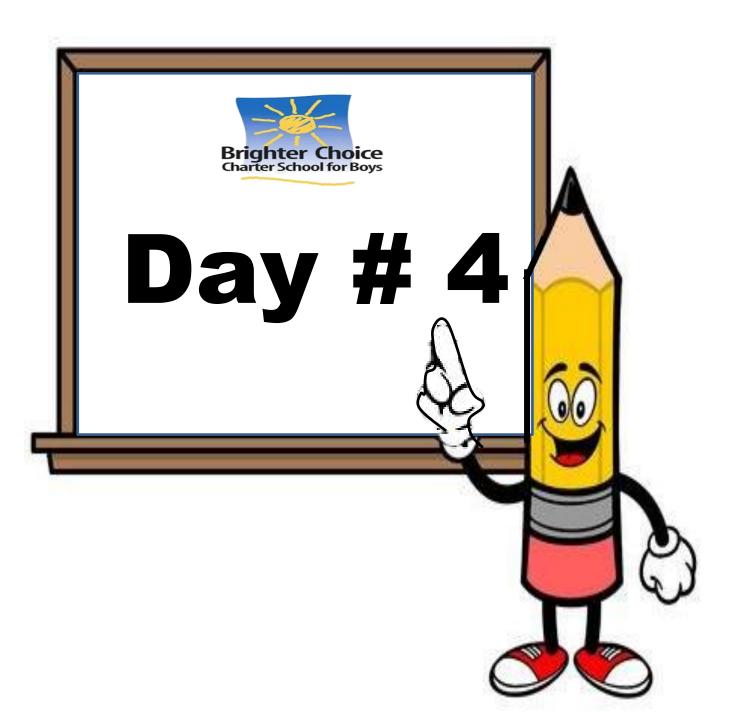
- Weight is a measure of the pull of \_\_\_\_\_\_ on an object.
- A \_\_\_\_\_\_ is a tool for measuring weight.



Scholars, refer to the Bill Nye handout attached to the packet.



Scholars, refer to the Measuring matter handout.



Scholars, refer to the assessments that are provided.