



Worksheet 1

Name :		Subject:	Science
Class:	Fourth grade	Date:	

- **What is matter?**

—>Matter is anything that has mass and takes up space.

- **How can we describe matter?**

—>By its properties like size, shape, colour, and texture (soft, rough, smooth).

- **Can two things take up the same space?**

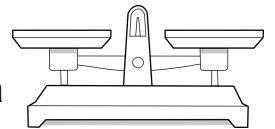
—>No, two things cannot take up the same space at the same time.

- **Does matter always look the same?**

—> No, matter can look different in size, colour, and shape.

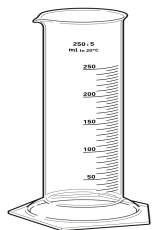
- **What is mass and how is it measured?**

—> Mass is the amount of matter in an object, measured using a balance.



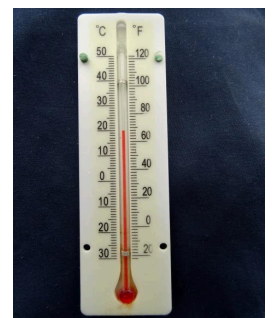
- **What is volume and how is it measured?**

—>Volume is the space that an object fills, measured with tools like a graduated cylinder.



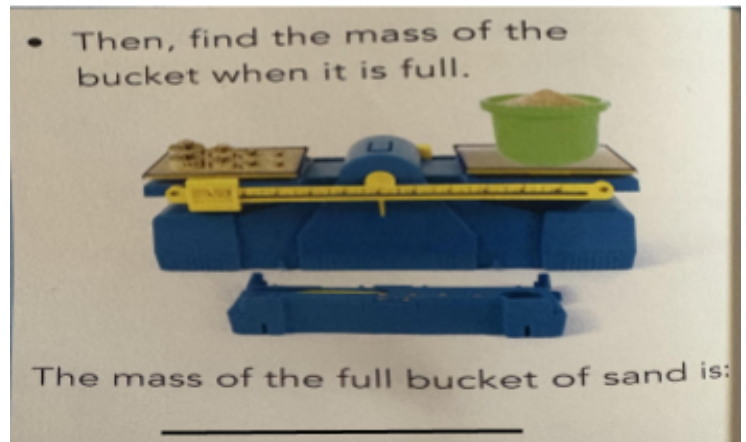
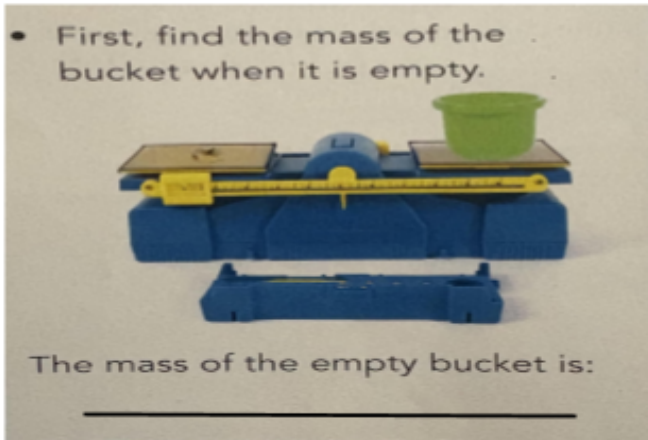
- **What is temperature and how is it measured?**

—>Temperature measures how hot or cold something is, using a thermometer.



Mass

- How to measure the mass of a bucket of sand :

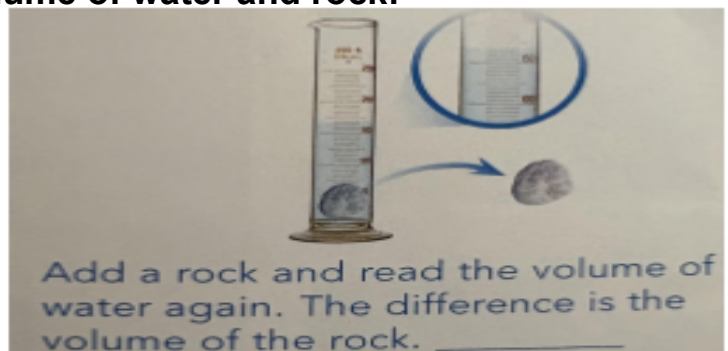
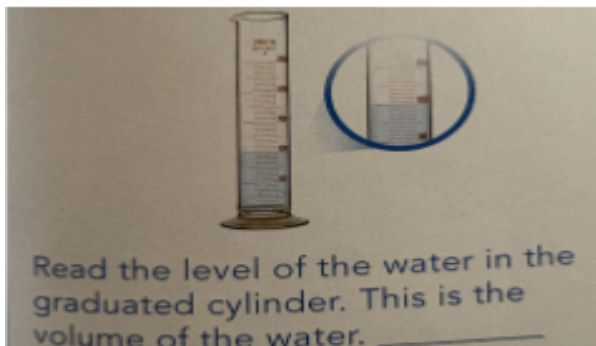


To find the mass of the sand:

Mass of full bucket of sand : _____	—	Minus the mass of the empty bucket: _____	=	Equals the mass of the sand: _____
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Volume

How to measure the volume of water and rock:



Volume of water and rock: _____	—	Volume of water _____	=	Volume of rock: _____
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Practice

- Define each of the following:

1- Matter:

2- Mass:

3- Volume:

4- Temperature:

- Fill in the Blanks:

Size - texture- mass - balance - matter -
graduated cylinder - space - hot or cold

1-Matter is anything that has _____ takes up.

2-Mass is the amount of _____ in an object.

3-Volume is the amount of _____ that an object fills.

4-Temperature measures how _____ something is.

5-Two things cannot take up the same _____ at the same time.

6-The _____ of an object describes how big or small it is.

7-A _____ is used to measure the mass of an object.

8-The _____ of an object describes if it's soft, rough, or smooth.

9-A _____ is used to measure the volume of liquids.

10-Matter can be described by its size, shape,color and _____.

- Circle the correct answer:

1- What is matter?

- | | |
|---|-----------------|
| A) Energy | C) Light |
| B) Anything that has mass and takes up space | D) Sound |

2- Which tool is used to measure mass?

- | | |
|-----------------------|---------------------|
| A) Thermometer | C) Balance |
| B) Ruler | D) Stopwatch |

3- What does volume measure?

- | | |
|-----------------------------------|-------------------------------------|
| A) The colour of an object | C) The shape of an object |
| B) The size of an object | D) The space an object fills |

4- Which of the following is a property of matter?

- | | |
|-----------------|--------------------|
| A) Speed | C) Distance |
| B) Shape | D) Energy |

5- How is temperature measured?

- | | |
|--------------------------|------------------------------|
| A) With a balance | C) With a thermometer |
| B) With a ruler | D) With a stopwatch |

States of Matter

- **What are the three states of matter?**

—> Solid, liquid, and gas.

- **Can water exist in all three states of matter?**

—> Yes, as ice (solid), liquid water, and steam (gas).

- **What defines a solid?**

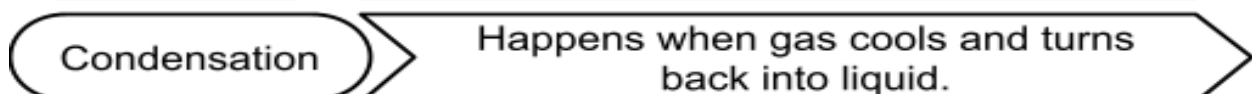
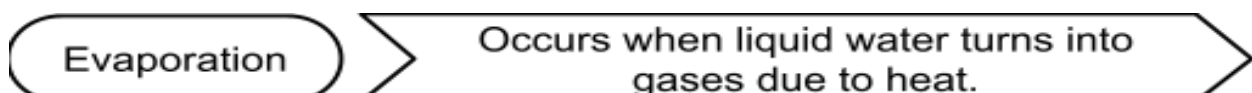
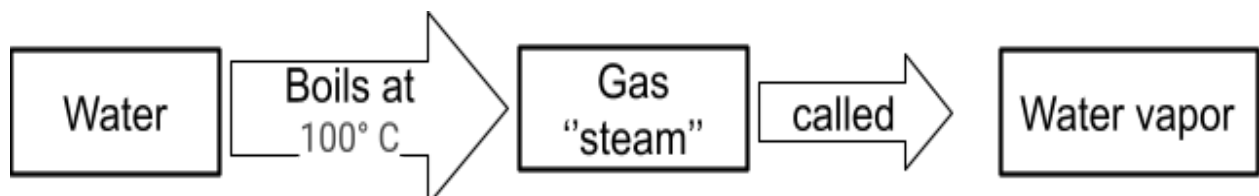
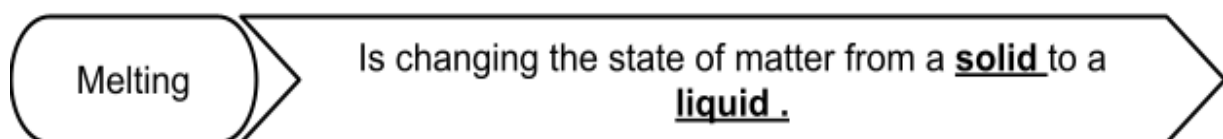
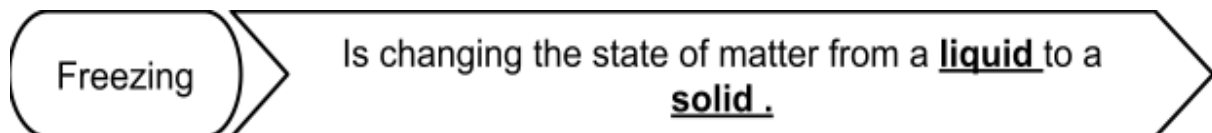
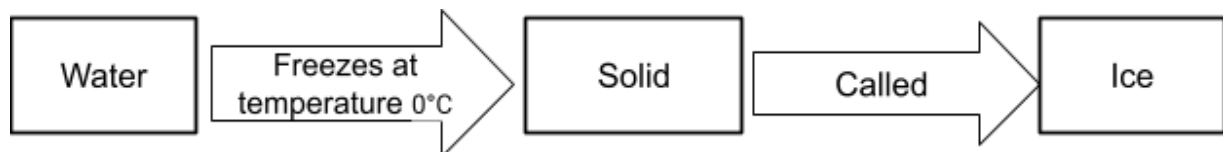
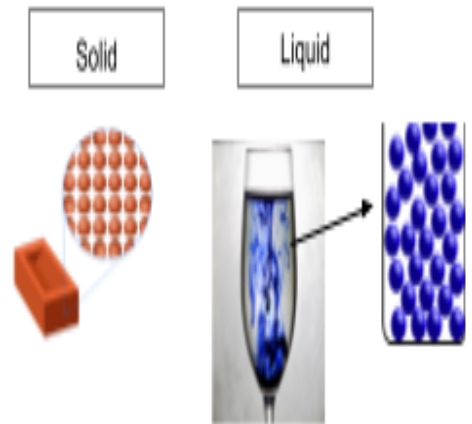
—> A solid has a definite shape and volume.

- **What defines a liquid?**

—> A liquid has a definite volume but takes the shape of its container.

- **What defines a gas?**

—> A gas has no definite shape or volume and spreads to fill any space.



Practice

- Define each of the following:

1- Matter:

2- Evaporation:

3- Condensation:

- Describe the properties of each of the following:

- Solid: _____

- Liquid: _____ , _____

- Gas: _____ , _____

- Fill in the blanks:

evaporation - shape - liquid- volume - gas - condensation - solid

1- Matter exists in three main states: _____, _____, and _____.

2- The process of changing from a liquid to a gas is called _____.

3- When water vapor cools and changes into liquid water, this process is known as _____.

4- A solid has a definite _____ and _____.

- Circle the correct answer:

1. Which of the following is NOT a state of matter?

- a) Solid
- b) Liquid
- c) Plasma
- d) Air

2. What happens during melting?

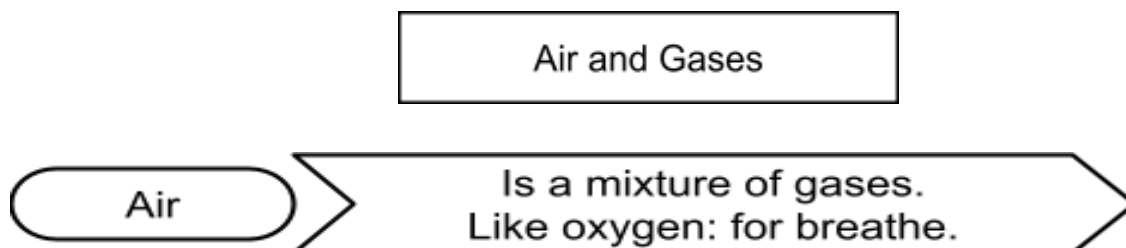
- a) Solid turns into gas
- b) Liquid turns into solid
- c) Solid turns into liquid
- d) Gas turns into liquid

3. Which process describes gas changing into a liquid?

- a) Freezing
- b) Condensation
- c) Evaporation
- d) Melting

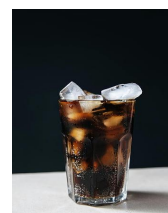
4. Which of these has a definite shape and volume?

- a) Gas
- b) Liquid
- c) Solid
- d) Water vapor



- Uses of gas:

1. For breathing.
2. To cook.
3. Making drinks fizzy.



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