



## 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?**

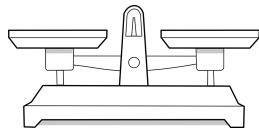
—> No, two things cannot take up the same space at the same time.

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

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

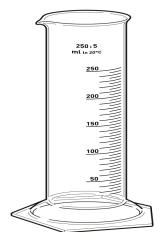
- **What is mass and how is it measured?**

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



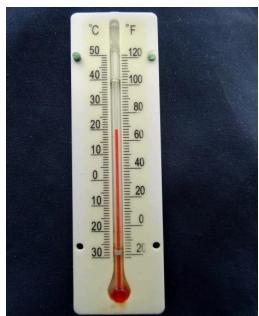
- **What is volume and how is it measured?**

—> 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 :

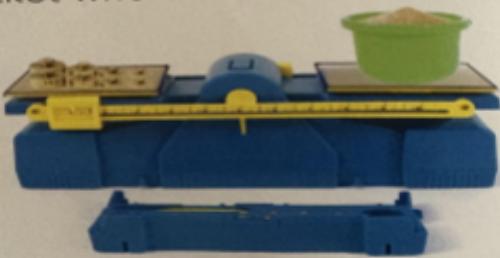
- First, find the mass of the bucket when it is empty.



The mass of the empty bucket is:

\_\_\_\_\_

- Then, find the mass of the bucket when it is full.



The mass of the full bucket of sand is:

\_\_\_\_\_

**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:

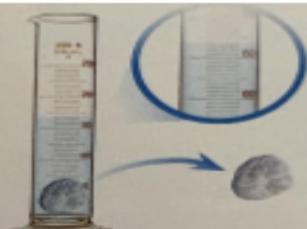
\_\_\_\_\_

# Volume

**How to measure the volume of water and rock:**



Read the level of the water in the  
graduated cylinder. This is the  
volume of the water.



Add a rock and read the volume of  
water again. The difference is the  
volume of the rock.

Volume of water and  
rock:

—

Volume of water

\_\_\_\_\_

—

Volume of rock:

\_\_\_\_\_

## Practice

- Define each of the following:

1- Matter:

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2- Mass:

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3- Volume:

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4- Temperature:

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

## 2- Which tool is used to measure mass?

<b>A) Thermometer</b>	<b>C) Balance</b>
<b>B) Ruler</b>	<b>D) Stopwatch</b>

### 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
- B) Shape
- C) Distance
- 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.

Solid

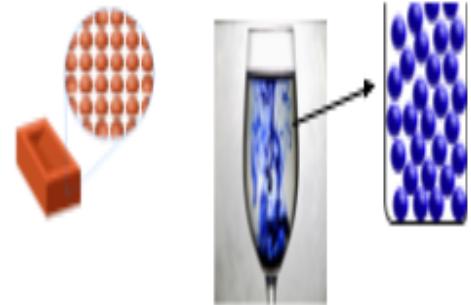
Liquid

- **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.

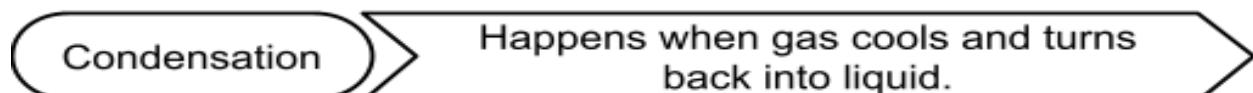
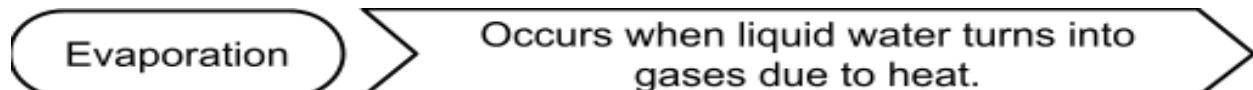
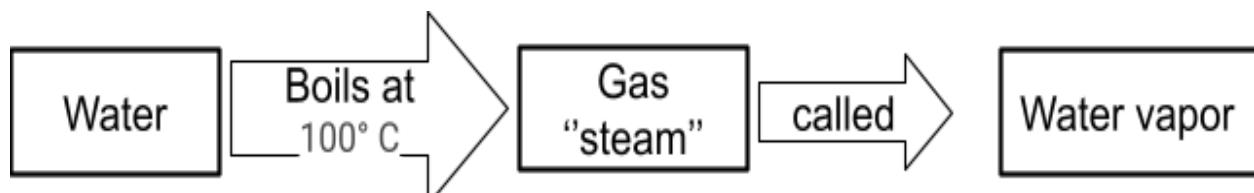
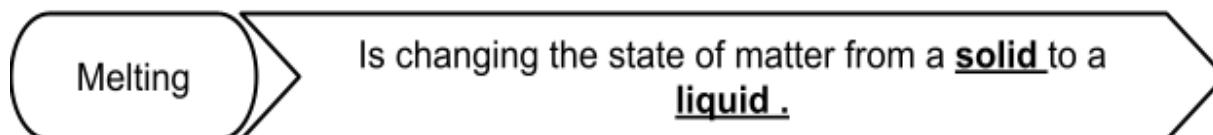
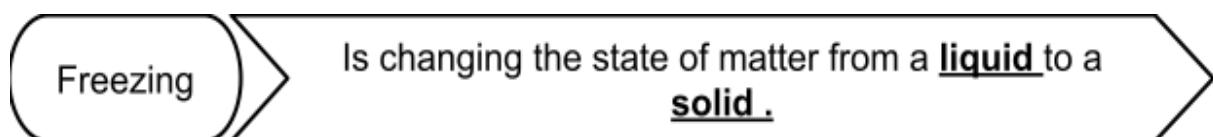
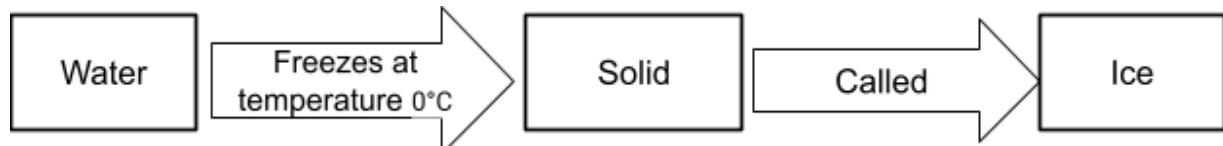


- **What defines a liquid?**

→ 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:

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2- Evaporation:

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3- Condensation:

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- 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?
  - Solid
  - Liquid
  - Plasma
  - Air
2. What happens during melting?
 

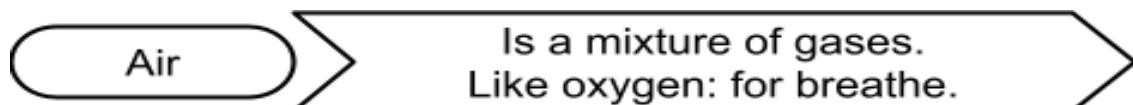
a) Solid turns into gas	c) Solid turns into liquid
b) Liquid turns into solid	d) Gas turns into liquid
3. Which process describes gas changing into a liquid?
 

a) Freezing	c) Evaporation
b) Condensation	d) Melting
4. Which of these has a definite shape and volume?
 

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

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Air and Gases



- **Uses of gas:**
  1. For breathing.
  2. To cook.
  3. Making drinks fizzy.



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