

## DESCRIBE AND MEASURE MATTER

### What is Matter?

Matter is all around you. Matter is anything that takes up space.

### Three States of Matter

Matter can be solid, liquid, or gas.

#### Solid

A solid takes up space.

A solid has its own shape.

A solid's shape will not change.

*Examples of solids:*



- a
- a
- a



**PREVIEW**

Please login or register to download the printable version of this study guide.

[www.newpathlearning.com](http://www.newpathlearning.com)

#### Liquid

A liquid also takes up space.

A liquid can change its shape.

A liquid takes the shape of whatever it is poured into...like a glass.



*Examples of liquids:*

- rain
- a puddle
- chocolate milk

## Gas

A gas takes up space.

A gas can change size and shape.

A gas takes the size and shape of what is holding it.

You can't see most gases.

Air is a gas.

## WATER - in ALL three states of matter:



**PREVIEW**

Please login or register to download the  
printable version of this study guide.

[www.newpathlearning.com](http://www.newpathlearning.com)

## Matter Can Change

Matter can change.

### Liquid can change into a solid.

→ Water (liquid) placed in a freezer will freeze (solid).

### Solids can change into a liquid.

→ An ice cube (solid) can melt into a puddle of water (liquid).



Heat can melt ice causing the ice to change from a solid into a liquid.

### Liquid can change into a gas.

→ Heat can cause water to change into a gas too – if you boil water, the water (which is a liquid) will change into water vapor or what we call steam (which is a gas).



→ The sun can cause water in a puddle to evaporate. Evaporate means to change from a liquid to a gas (water vapor).



Please login or register to download the printable version of this study guide.

[www.newpathlearning.com](http://www.newpathlearning.com)

**Properties**  
All objects  
A property

There are different properties of matter:

#### 1. Size

Size tells how BIG or small an object is.  
Which object is BIGGER?



The PENCIL is bigger than the paper clip.

**2. Shape**

This ball has a round shape.



**3. Color**

What color is this car?



BLUE! You're right!

**4. Weight**

Weight  
Which



Please login or register to download the printable version of this study guide.

[www.newpathlearning.com](http://www.newpathlearning.com)



The elephant weighs MORE than the book.

**5. Texture**

Texture tells how an object feels.

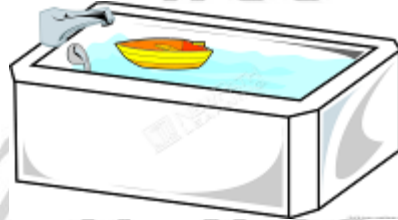
An object might feel smooth, bumpy, or rough.

This piece of sandpaper would feel rough.



## 6. Buoyancy

**Buoyancy** is the ability an object has to float in water.



Some objects can float in water.

### Examples of objects that will float in water:

- feather
- wood stick
- pencil

Other

Exam



**PREVIEW**

Please login or register to download the printable version of this study guide.

[www.newpathlearning.com](http://www.newpathlearning.com)

- a rock
- paper clip
- crayon