

# Science

Student Book

plus  
E+



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1. Measuring tools.
2. States of matter.
3. Changes of matter.

## Unit two

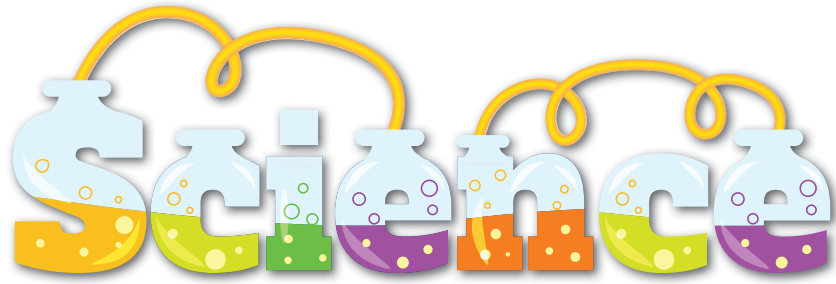
1. Physical and chemical changes.
2. Our solar system.

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1. Human digestive system.
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# Unit one

**Lesson (1):** Measuring tools.

**Lesson (2):** States of matter.

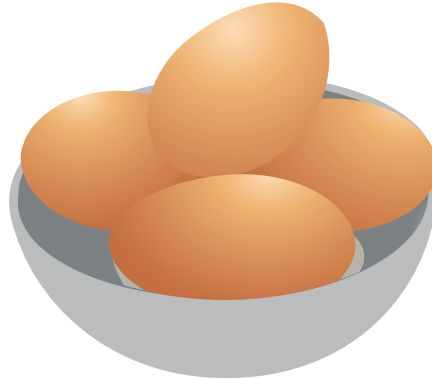
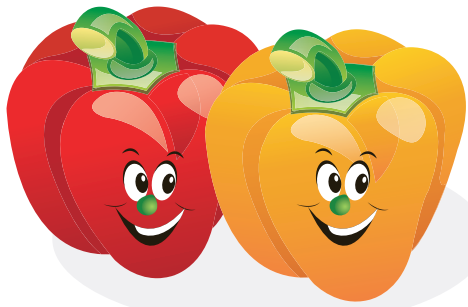
**Lesson (3):** Changes of Matter.

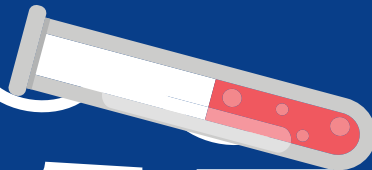


## Unit: 1 Lesson: 1

# Measuring Tools

When we look around us, we will see different things all of them are called **Matters**.





# What is meant by matter?

## Matter

It is anything that has **mass** and **volume**.

## What is mass ?

**Mass:** is the amount of matter in an object.

## What is volume ?

**Volume:** is the space that is occupied by an object.

## Give reason: Tell why?

### School bag is a matter?

Because it has **mass** and **volume**.



## Unit: 1 Exercises

### Exercise (1)

#### 1- Write the scientific terms.

1. It is anything that has mass and volume . [      ]
2. It is the amount of matter that the object contains. [      ]
3. It is the space occupied by an object . [      ]

#### 2- Complete.

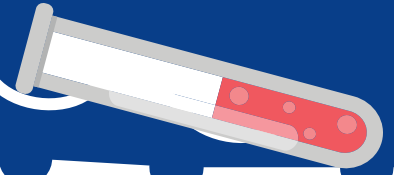
1. Matter has ..... and .....
2. .... is amount of matter in an object.
3. .... is the space occupied by an object.

#### 3- Put (✓) or (X).

1. Volume is amount of matter in an object. (    )
2. Matter is the space occupied by an object. (    )
3. A pen is not a matter (    )

#### 4- Give reason :

1. A ball is a matter.  
Because it has.....



# Mass & Volume

## 1- Mass

### Measuring tools of mass :



#### Common balance

It used to measure big masses  
fruits & vegetables



#### Sensitive balance

It used to measure small  
masses as jewels

### Measuring units of mass:

#### Kilogram (kg)

To measure big masses.



#### Gram (gm)

To measure small masses.





## Exercise (2)

### 1- Complete.

1. .... is measured by balances.
2. The unit of small masses is ..... ,While the unit of big masses is .....
3. We measure the mass of a ring by .....
4. Gram is a unit of measuring .....
5. The tool that used to measure the mass of fruit and vegetables is .....

### 2- Write the scientific terms.

1. A unit that is suitable for measuring big masses. [     ]
2. A tool used to measure the mass of jewelry. [     ]
3. A tool used to measure the mass of any body. [     ]

### 3- Compare.

Points of comparison	Small mass	Big mass
Tools		
Units		



## 2-Volume

### Measuring tool of volume.

The volume is measured by **graduated cylinder**.



**Graduated cylinder**

### Measuring units of volume.

1- Liter (L)

2- Cubic centimeter (Cm<sup>3</sup>)