ALADWAA

Gem



Science

الصف 6 الابتدائى

النماذج الاسترشادية لشهر نوفمبر

العام الدراسى 2024 - 2025

Model (1)

5 Marks

1 Choose the correct answer:

1 Gravity and magnetism are similar in that ..... .

a) they are repulsion forces only

b) they are attraction forces only

c) they are forces that attract all objects

d) we can't see both of them

2 Both ..... and ..... are examples of liquid matter.

a) water - milk

b) water - wood

c) water - copper

d) oil - paper

3 A magnetic field can be formed when an electric current flow around ..... .

a) a plastic core

b) a battery

c) a metal core

d) a rubber core

4 When a thermometer is placed in a cup of iced water, the liquid inside the thermometer .... due to its ..... .

a) goes down - expansion

b) rises up - expansion

c) goes down - contraction

d) rises up - contraction

2 Put (✓) or (✗):

1 If a person touches an insulated electric wire, he will be shocked by electricity. ( )

2 Glass can be melted at very low temperatures. ( )

3 The electric devices in houses are connected in series circuits. ( )

4 We can measure the temperature by using thermometers. ( )

3 Answer the following questions:

1 Some electric circuits contain resistors. Give a reason.

- ..... .

2 What happens when you hold a piece of ice in your hand (according to transfer of heat)?

- ..... .

Model (2)

5 Marks

1 Write the scientefic term:

1. A device inserted into the chest to stimulate the heart to beat regularly.

(.....)

2. It is the smallest building unit of matter. (.....)

3. The flow of electrons through an electric wire. (.....)

4. The state of matter which changes into liquid state by heating. (.....)

2 Complete the following sentences:

1. Changing of matter from ..... state to ..... state is called evaporation.

2. The ..... helps in opening and closing the electrical circuit.

3. Different materials ..... by heating and ..... by cooling

4. Magnets attract some metals, such as ....., ..., ... and ..... .

3 Answer the following questions:

1. Engineers use expansion joints in the design of bridges. Give a reason.

- ..... .

2. What happens if a large magnet spins at a high speed around a coiled wire?

- ..... .

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Model (3)

5 Marks

1 Complete the following sentences:

1. Gravity attracts any object that has ..... .
2. When butter melts, the speed of movement of its particles will ..... .
3. Some materials are called ..... because they don't allow electric current to flow through them, like ..... and ..... .
4. When the force that holds the molecules ....., they vibrate faster.

2 Choose the correct answer:

1. Scientists use a ..... to detect the flow of electric currents.

   a) generator b) galvanometer c) battery d) switch

2. In which state (s) of matter are the molecules away from each other? ..... .

   a) Solid state b) Gas state

   c) Solid and liquid states d) Solid and gas states

3. All the following materials are called magnetic materials, except ..... .

   a) iron b) plastic c) nickel d) steel

4. Changing from gas state to liquid state is called ..... .

   a)melting b) evaporation c) condensation d) freezing

3 Answer the following questions:

1. Give a reason: The electric circuit is considered as a system.

   - ..... .

2. What happens to the level of alcohol inside a thermometer if we put it in cold water.

   - ..... .

Model (4)

5 Marks

1 Put (✓) or (✗):

1. The force of gravity between an object and the Earth increases, when the distance between them increases. ( )
2. Heat flows from a hotter substance to a colder substance. ( )
3. Water in dams is used to operate wind turbines. ( )
4. Temperature is a measure of the average kinetic energy of the molecules of a matter. ( )

2 Choose from column (B) what suits from column (A):

(A)	(B)
1 Melting process	a) It is the change of matter from liquid state to solid state.
2 Electricity	b) is a non-magnetic material.
3 Freezing	c) is a form of energy.
4 Plastic spoon	d) It is the change of matter from solid state to liquid state.

1. ..... 2. ..... 3. ..... 4. .....

3 Answer the following questions:

1. Look at the opposite figure, then answer:

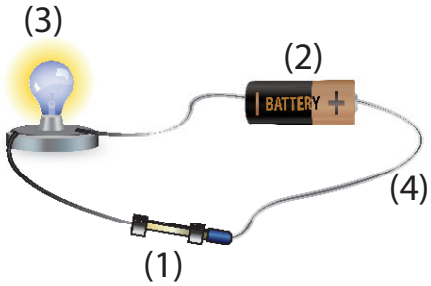
a) label the figure:

1- ..... .

2- ..... .

3- ..... .

4- ..... .



b) What happens if component number 1 is open?

- ..... .

2. What happens to the size of an inflated balloon if it is placed in hot weather?

- ..... .

Model (5)

5 Marks

1 Choose the correct answer:

1 When the particles of wax ..... , it melts.

a) gain thermal energy and speed up b) gain thermal energy and slow down

c) lose thermal energy and speed up d) lose thermal energy and slow down

2 All the following materials are electric insulators, except ..... .

a) rubber b) plastic c) wood d) steel

3 As a result of heat flow through metals, they ..... .

a) expand b) contract c) get smaller d) are not affected

4 The ..... of an object and its ..... from the Earth's surface affect the gravity force.

a) mass - color b) distance - mass c) mass - distance d) shape - distance

2 Write the scientefic term:

1 The type of electric circuit that is found in houses and help in operating many devices at the same time. (.....)

2 The temperature at which matter changes from liquid state to gas state. (.....)

3 It contains an automatic switch to adjust the temperature inside the refrigerator. (.....)

4 Materials that allow electrons to flow through them easily. (.....)

3 Answer the following questions:

1 Evaporation and condensation are two opposite processes. Give a reason.

- ..... .

2 What happens if electric circuit in houses are connected in series?

- ..... .