

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



مراجعة درس الكهرباء والمغناطيسية Magnetism and Electricity مع الإجابات

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تاريخ نشر الملف على موقع المناهج: 20-10-2023 18:02:46

التواصل الاجتماعي بحسب الصف الثالث



روابط مواد الصف الثالث على تلغرام

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المزيد من الملفات بحسب الصف الثالث والمادة علوم في الفصل الأول

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## Answer Key with Questions

### Module Test: Electricity and Magnetism

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**1)** Fill in the blanks using the available answer choices.

A north pole will attract another magnet's \_\_\_\_\_ pole.  
(Blank 1)

Blank 1 options

- north
- south

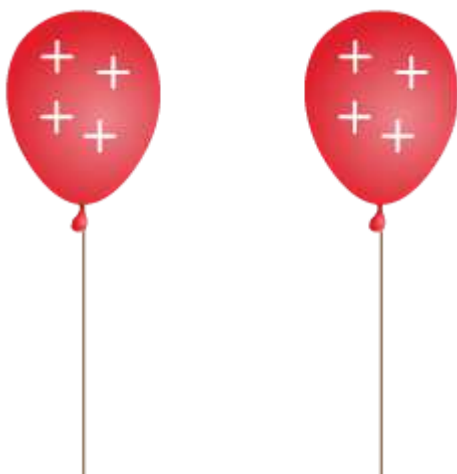
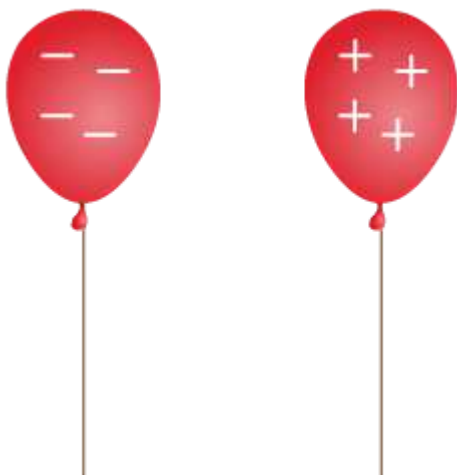
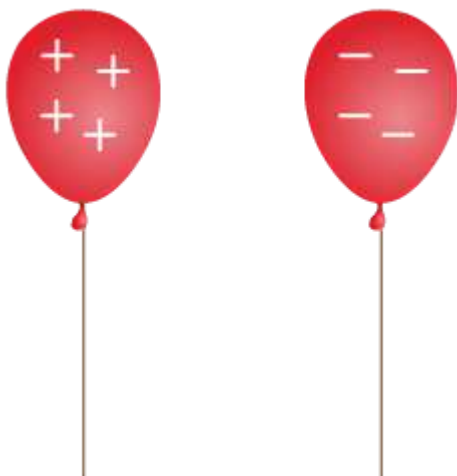
**Correct Answer**

south

## Answer Key with Questions

Module Test: Electricity and Magnetism

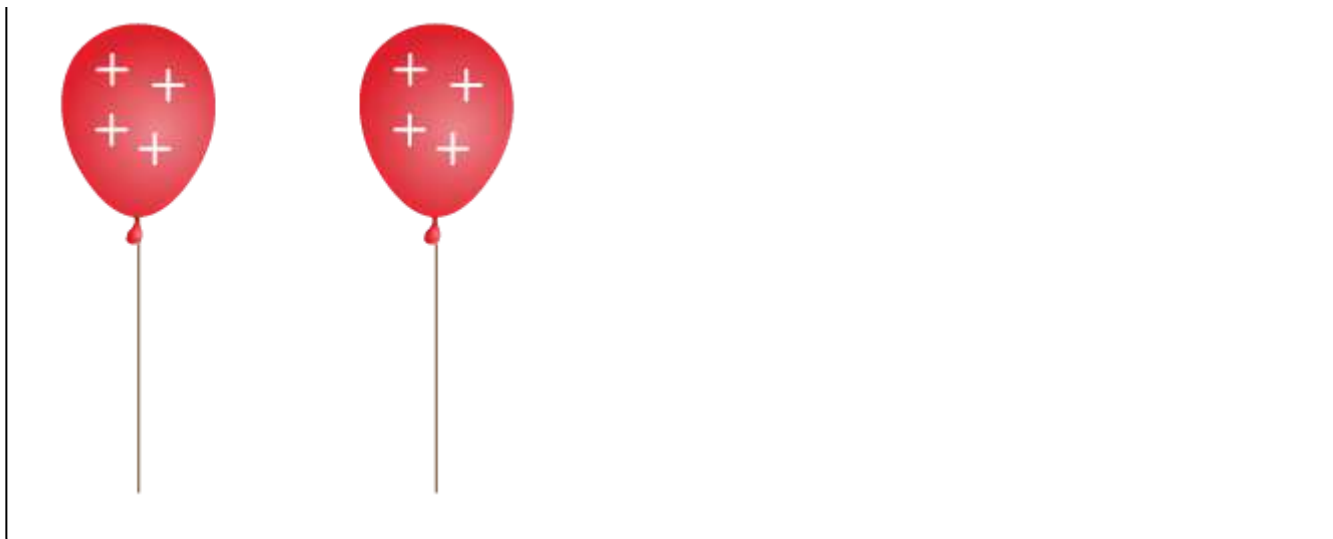
2) Which pair of balloons will repel each other?



**Correct Answer**

## Answer Key with Questions

### Module Test: Electricity and Magnetism



3) A compass uses the \_\_\_\_\_ field of the Earth.

**Correct Answer**

**Blank 1:** magnetic

4) Static electricity might cause a shock to a person touching which object?

- a glass window
- a plastic bottle
- an iron doorknob
- a rubber eraser

**Correct Answer**

an iron doorknob

# Answer Key with Questions

## Module Test: Electricity and Magnetism

### 5) Match.

a material that is often affected by the push and pull of magnets

\_\_\_\_\_

a region of magnetic force around a magnet

\_\_\_\_\_

the ability of an object to push or pull on another object that has the magnetic property

\_\_\_\_\_

an object with a force that can attract or repel certain materials

\_\_\_\_\_

one of two ends of a magnet

\_\_\_\_\_

magnetism

magnet

magnetic field

pole

metal

### Correct Answer

a material that is often affected by the push and pull of magnets



metal

a region of magnetic force around a magnet



magnetic field

the ability of an object to push or pull on another object that has the magnetic property



magnetism

an object with a force that can attract or repel certain materials



magnet

one of two ends of a magnet



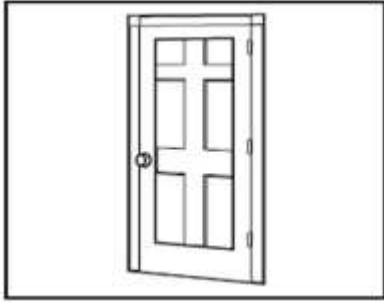
pole

## Answer Key with Questions

Module Test: Electricity and Magnetism

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6) Which causes a shock when a person touches a doorknob?



- electric current
- static electricity
- a broken circuit
- insulated wires

**Correct Answer**

static electricity

## Answer Key with Questions

### Module Test: Electricity and Magnetism

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7) Anita lights up the dark room with her flashlight to see what is there. Explain how the electrical circuit in the flashlight works.

#### Correct Answer

Answers may vary.

#### Explanation

## Answer Key with Questions

### Module Test: Electricity and Magnetism

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8) Your papers keep falling off the refrigerator door. How could you solve this problem?

- Design a stronger magnetic holder.
- Attach paper clips to a magnet.
- Use thicker paper.
- Fold the papers in half.

#### Correct Answer

Design a stronger magnetic holder.

9) Drag and drop the phrases into the correct column.

Ways you can use magnets	Ways magnets do not work

#### Answer Bank

Collect nails that have fallen on the ground.    Hold objects in place

Light up a light bulb    Sort items in your desk

#### Correct Answer

##### Ways you can use magnets

- Collect nails that have fallen on the ground.
- Hold objects in place

##### Ways magnets do not work

- Light up a light bulb
- Sort items in your desk



## Answer Key with Questions

### Module Test: Electricity and Magnetism

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**10)** Fill in the blanks using the available answer choices.

A magnet \_\_\_\_\_ paper clips and \_\_\_\_\_ iron filings.  
(Blank 1) (Blank 2)

Blank 1 options

- attracts
- repels

Blank 2 options

- attracts
- repels

#### **Correct Answer**

attracts  
attracts

**11)** Which statements describe how a magnet can be used to solve a problem? Select **all** that apply.

- A magnetic latch keeps a cabinet door closed.
- A person uses a magnet to attach a note to a refrigerator.
- A magnetic alphabet letter helps a student read.
- A person uses a magnet to steady a wobbly table.

#### **Correct Answer**

A magnetic latch keeps a cabinet door closed.  
A person uses a magnet to attach a note to a refrigerator.

**12)** Which would be attracted to a magnet?

- an ice cube
- an iron nail
- a wax crayon
- a copper penny

#### **Correct Answer**

an iron nail

## Answer Key with Questions

### Module Test: Electricity and Magnetism

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**13)** A positive charge will attract a \_\_\_\_\_ charge.

**Correct Answer**

**Blank 1:** negative

**14)** Maria combs her hair with a plastic comb, causing static electricity to build up on the comb. She then places her comb next to some small scraps of paper. What happens to the paper scraps?

- The paper scraps stay in place.
- The paper scraps are attracted to the comb.
- The paper scraps are repelled by the comb.
- The paper scraps are scattered in all directions.

**Correct Answer**

The paper scraps are attracted to the comb.

## Answer Key with Questions

### Module Test: Electricity and Magnetism

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**15)** Describe how the distance that an object is from a magnet affects the magnetic force on that object.

#### Correct Answer

Answers may vary.

#### Explanation

**16)** In which of these situations could a magnet be used to solve the problem? Select all that apply.

- Mrs. Lee wants to attach a note to her metal filing cabinet.
- Lexie loses her rubber wrist band in the sand at the beach.
- Kyle needs to clean up a pile of flour that he spilled while baking.
- Halley wants to move her plastic toy car around the race track without using her hands.
- Mr. Lopez drops a metal screw under his desk and he cannot reach it or move the desk to get it.

#### Correct Answer

Mrs. Lee wants to attach a note to her metal filing cabinet.

Mr. Lopez drops a metal screw under his desk and he cannot reach it or move the desk to get it.

## Answer Key with Questions

### Module Test: Electricity and Magnetism

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**17)** Which is an example of static electricity in nature?

- rain
- volcano
- lightning
- waterfall

**Correct Answer**

lightning

## Answer Key with Questions

Module Test: Electricity and Magnetism

- 18)** Sam has a pet bird that uses a metal cage. The door to the cage keeps opening, as shown.



The bird gets out of the cage and flies around the house.

- a. Identify a problem that Sam needs to solve.

- b. Describe a possible constraint (limit) for solving the problem identified in part (a).

- c. Explain how Sam could solve the problem identified in part (a) using magnets.

## Answer Key with Questions

Module Test: Electricity and Magnetism

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### **Correct Answer**

Answers may vary.