

التاريخ: 2025/03/02

المدة: ساعتان

المادة: اللغة الإنجليزية

المستوى: 2 لغات أجنبية

اختبار الفصل الثاني

Part One: Reading

Chemical reactions happen every day around us. Some happen all by themselves like photosynthesis, cooking food and burning fuel. A chemical reaction is a process where one type of substance is chemically converted to another type. This experiment demonstrates a common chemical reaction. Put a thermometer in a closed jar. Take a piece of steel wool and soak it in vinegar for one minute. Wrap the steel wool around the thermometer bulb. If you put it inside the jar again, the temperature rises.



All chemical reactions involve the formation of or destruction of bonds between atoms. They include the rusting of iron and the digestion of food. In the process, they all give off heat. The chemical reactions that occur in digestion give off heat that keeps our body warm and functioning.

Chemical reactions consist of chemical formulas and symbols that show the substances involved in the conversions. Therefore, chemists use chemical equations to explain what happens in a chemical reaction. The chemical reaction for the rusting of iron shows that four atoms of solid iron react with the three molecules of oxygen gas to form two units of solid rust. Experiments demonstrate that iron and oxygen react in these proportions in air at room temperature. Rust is the product, or the result of the reaction. Iron and oxygen are the reactants. The reactants are the substances that undergo chemical change.

Adapted from Sparteck Software web site

A/Reading:

1) The text is : a) a scientific article b) a guide to geometry c) a medical report

2) Say whether the following sentences are true or false:

- a) A chemical reaction is a daily phenomenon.....
- b) Chemical reactions include photosynthesis.....
- c) Our body gets cooler during digestion.....
- d) Rust is a chemical reaction to iron and oxygen.....

3) Answer questions according to the text:

- a) What is a chemical reaction?
- b) Does the temperature rise during a chemical reaction? (give a short answer)
- c) Why do chemists use chemical equations to explain a chemical reaction?

4) In which paragraph is the chemical reaction for iron rusting demonstrated?.....

5) Who or what do the underlined words refer to?

(§1) it : (§2) They :

B/ Text Exploration:

1) Find in the text words whose definitions follow:

- a) Substance forming on metals by oxidation when exposed to air and moisture =
- b) The smallest particle of a chemical element taking part in a chemical reaction =

2) Complete the table:

Verb	Noun	Adjective
.....	destruction	
.....		functioning
to think		

3) Ask questions on the underlined words:

- a) An atom contains three elements.

4) Put the verbs between brackets in the right form:

- a) I would invent a time travel machine if I (be)..... a scientist.
- b) Metal (not rust) when it is dry.
- c) You had better (avoid)..... dangerous experiments.



5) Complete sentence (b) so as it means the same as sentence (a) :

- 1 - a) A substance is chemically converted to another by a chemical reaction.
b) *A chemical reaction*
- 2 - a) I have no friend to turn to, so I write a letter to Agony Aunt.
b) *If*
- 3- a) you have a bad toothache, I advise you to see a dentist.
b) *You*

6) Complete the dialogue between two students:

A:

B: To the chemistry lab.

A:

B: No. Today we are going to do an experiment.

A:

B: It is about the chemical reactions

A:

B: At twelve o'clock?



7) Classify the words in the table according to their stressed syllables:

transformation / technology / magic / statistics

1 st syllable	2 nd syllable	3 rd syllable

Part Two: Writing **Choose one topic:**

Topic 1: Imagine you are in a dilemma, write a letter to Agony Aunt to seek for advice.

Use these notes:

Salutation / Say why you are writing / Introduce yourself / Expose your problem and difficulties / Ask for help / Close the letter.

Topic 2: If you were a scientist, what would you invent or discover to contribute in the improvement of people's life

(a new machine, a cure for disease, a mean of transport,). Explain how your invention would be and what it would be used for.



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التصحيح اختبار الفصل الثاني

Part One : Reading

1. The text is : a scientific article
2. Say whether the following sentences are true or false :
 - a) True (Chemical reactions happen every day)
 - b) True (Photosynthesis is a chemical reaction)
 - c) False (Digestion releases heat that keeps the body warm)
 - d) True (Rust forms from a reaction between iron and oxygen)
3. Answer the questions :
 - a) A chemical reaction is a process where one type of substance is chemically converted to another.
 - b) Yes, the temperature rises.
 - c) Chemists use chemical equations to explain the substances involved in chemical reactions and their proportions.
4. The chemical reaction for iron rusting is demonstrated in the third paragraph.
5. Pronoun references :

« it » refers to the experiment.

« They » refers to chemical reactions.

B/ Text Exploration

1. Find words from the text :

- a) Rust
- b) Atom

2. Complete the table :

To destroy	destruction	destroyed
To function	function	Functioning
To think	thought	Thoughtful

3. Ask questions :

What does an atom contain ?

4. Put the verbs in the correct form :

I would invent a time travel machine if I were a scientist.

Metal does not rust when it is dry.

You had better avoid dangerous experiments.

5. Rewrite the sentences :

- a) A chemical reaction converts a substance into another.
- b) If I had a friend to turn to, I wouldn't write a letter to Agony Aunt.
- b) You should advise your friend to see a dentist.

6. Complete the dialogue :

- a) Where are you going ?
- b) To the chemistry lab.

- a) Are you going to study theory today ?
- b) No. Today we are going to do an experiment.
- a) What is the experiment about ?
- b) It is about chemical reactions.
- a) At what time does the experiment start ?
- b) At twelve o'clock.
7. Classify the words according to their stressed syllables :

1 st syll	2 nd syll	3 rd syll
magic	Technology - statistics	transformation

8.

Part Two : Writing

Topic 2 : If I were a scientist, I would invent a machine to improve people's lives.

If I were a scientist, I would invent a health scanner machine that can detect diseases in the human body within seconds. This machine would be portable and use advanced sensors to analyze the body's condition without the need for painful tests or expensive scans.

The machine would work by scanning the body and providing instant results on a digital screen, showing any health issues and suggesting treatments. It would be connected to a medical database to compare symptoms and recommend the best course of action.

This invention would help doctors diagnose diseases faster, prevent misdiagnosis, and save lives. It would be especially useful in poor countries where medical services are limited. With this machine, people could monitor their health regularly and take action before a disease becomes serious.

This is my dream invention, and I believe it would make the world a healthier place !

Ecole Erradja wa Tafaouk
ÉCOLE PRIVÉE