# تم تحميل هذا الملف من موقع المناهج الإماراتية





## تجميعة أسئلة القسم الكتابي وفق الهيكل الوزاري منهج انسباير

موقع المناهج ← المناهج الإماراتية ← الصف التاسع العام ← علوم ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 10-11-203 12:35

ملفات اكتب للمعلم اكتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس

المزيد من مادة علوم:

#### التواصل الاجتماعي بحسب الصف التاسع العام











صفحة المناهج الإماراتية على فيسببوك

الرياضيات

اللغة الانجليزية

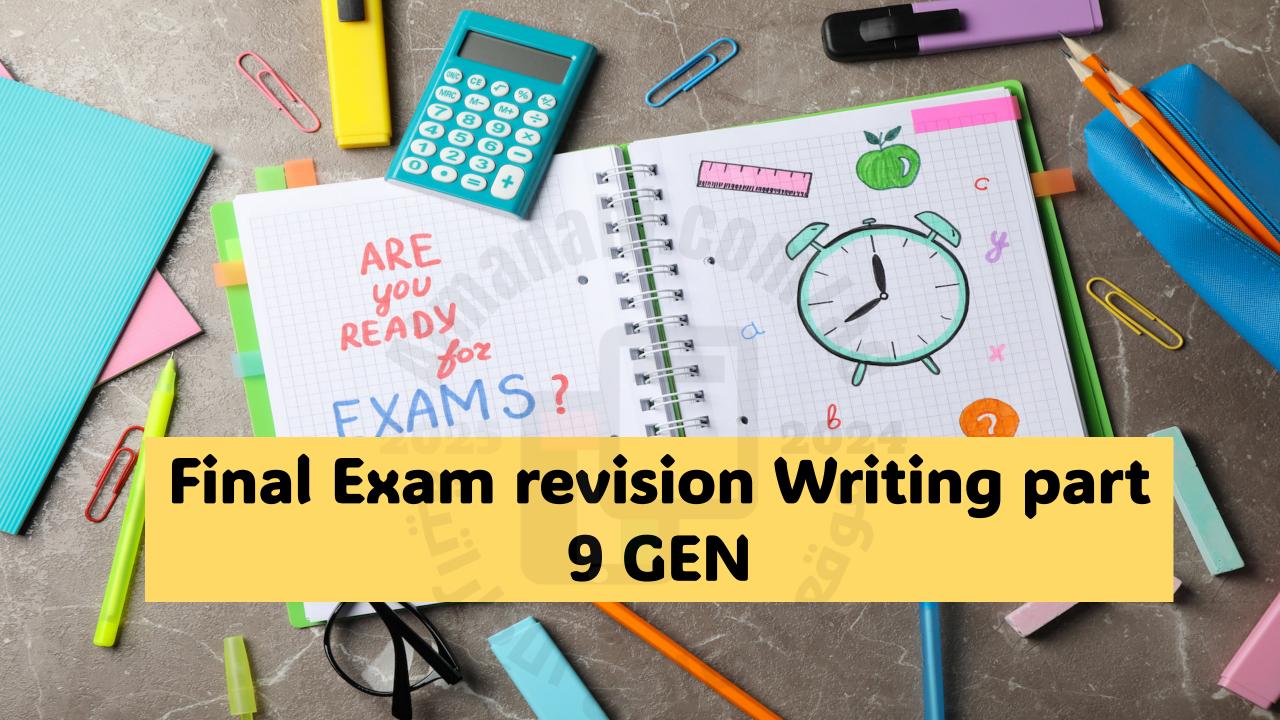
اللغة العربية

التربية الاسلامية

المواد على تلغرام

#### المزيد من الملفات بحسب الصف التاسع العام والمادة علوم في الفصل الأول

يت بن المسلم	
تجميعة أسئلة القسم الالكتروني وفق الهيكل الوزاري منهج انسباير	1
تجميعة صفحات الكتاب وفق الهيكل الوزاري منهج بريدج	2
ملخص بدون أمثلة وفق الهيكل الوزاري منهج انسباير	3
الهيكل الوزاري الجديد المسار العام منهج بريدج	4
أسئلة مراجعة نهائية منهج انسباير	5



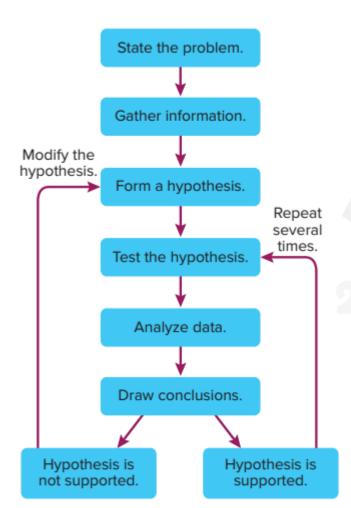


Figure 3 The series of procedures shown here is one way to use scientific methods to solve a problem.

Scientific method: The series of procedure to solve scientific question

### The six common steps are:

- 1) state the problem
- 2) research and gather information
- 3) form a hypothesis
- 4) test a hypothesis
- 5) analyze data
- 6) draw conclusions

How are a hypothesis and a theory similar?

A hypothesis and a theory cannot be revised.

Theories and hypotheses are produced by experts.

They are attempts to explain natural phenomena.

O They are about equally true.

**Answer:C** 

1. The series of procedure to solve scientific question is called .......

A. Scientific method

3. Hypothesis

C. Variable

D. Peer review

Which of the following questions CANNOT be answered by science?

O How do birds fly?

Is this a good song?

O What is an atom?

O How does a clock work?

What is the correct order of the steps in the scientific method to solve a problem?

a. State the problem → Form a Hypothesis → Gather information → Analyze Data → Test the Hypothesis → Draw Conclusions → → Hypothesis is supported, or it's not supported b. State the problem → Gather information → Form a Hypothesis → Test the Hypothesis → Analyze Data → Draw Conclusions → -> Hypothesis is supported, or it's not supported Gather information → Analyze Data → State the problem → Form a Hypothesis → Test the Hypothesis → Draw Conclusions → → Hypothesis is supported, or it's not supported d. Gather information → State the problem → Analyze Data → Form a Hypothesis → Test the Hypothesis → Draw Conclusions → → Hypothesis is supported, or it's not supported

2	Define Matter and how to classify it (mixtures & pure substances) and give examples for every	Textbook, figure 1	Page number 384, 389, 390	
	category, differentiate between physical change			
	and chemical change and the resulted matter			
	from each change			

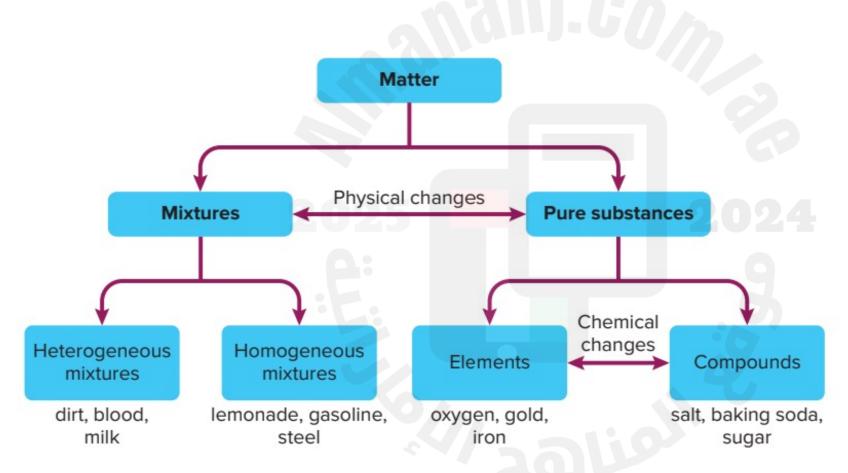
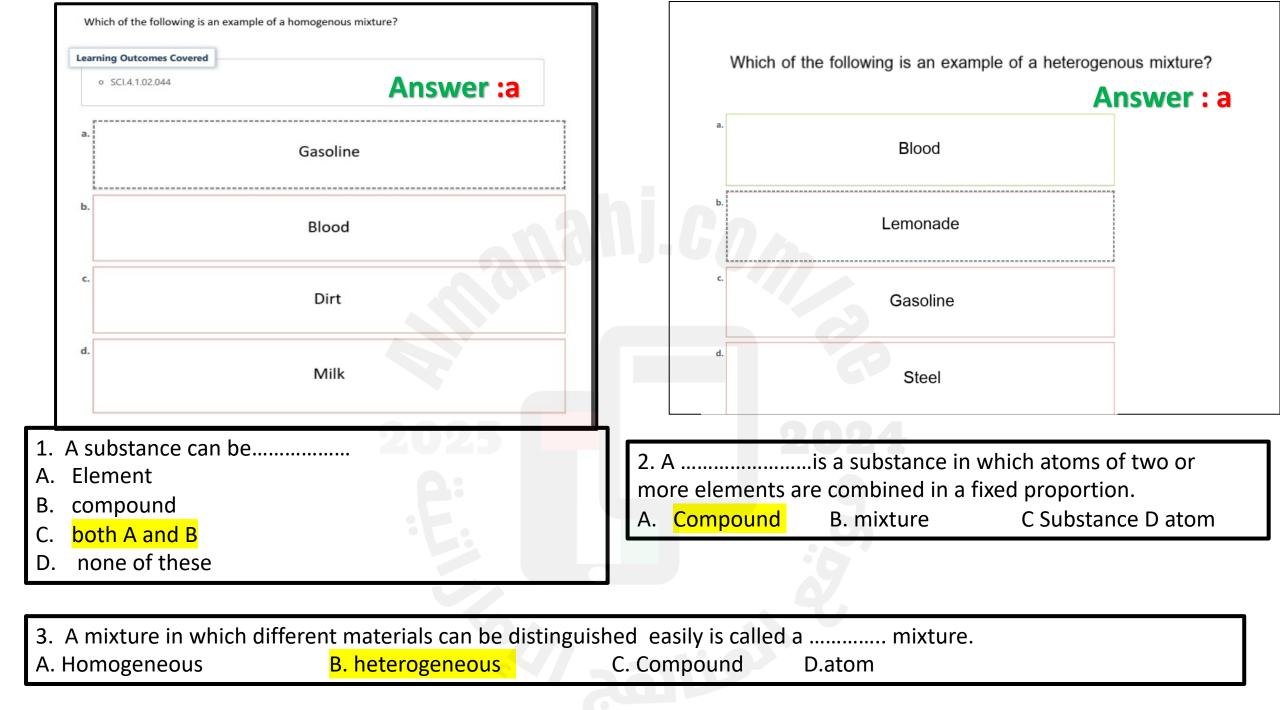


Figure 11 The concept map shows that mixtures can be either heterogeneous or homogeneous. Pure substances can be elements or compounds.

**Examine** Where on this chart would you classify pizza?



<ul> <li>4. A(n) is a substance made up of atoms that are all alike.</li> <li>A. Atom</li> <li>B. mixture</li> <li>C. compound</li> <li>D. element</li> </ul>	<ul> <li>5. Which of the following is a pure substance?</li> <li>A. colloid</li> <li>B. Mixture</li> <li>C. compound</li> <li>D. solutions</li> </ul>
6. H2O is a/an A. Compound B. element C. Mixture D. D. atom	7 Which of the following is an element? A. H <sub>2</sub> O B. CO <sub>2</sub> C.NH <sub>3</sub> D. O <sub>2</sub> 9. Which of the following is the only sure sign that a
8. Which of these describe an element? A. Element is made of different kinds of atom B. Element is made of same type of atom C. Element is made of compound D. all of the above	chemical change is taking place?  A. New substances are produced.  B. A sound is produced.  C. Heat is produced.  D. Bubbles are produced.
10. Air is a  A. Mixture  B. element  C. compound  D.	none of these

- 11. Which of the following are physical change?
- A. A log burns in a fireplace.
- B. Ammonia boils at -33°C.
- C. Bread bakes in an oven.
- D. Rusting of Iron
- 13. Which of the following is an example of physical weathering?
- A. Flowing water carves erosion channels in a hillside.
- B. Acid rain corrodes a monument.
- C. Calcium carbonate in limestone changes to calcium hydrogen carbonate.
- D. Stalactites precipitate in a cave

- 12. A(n) \_\_\_\_\_ is a material made up of two or more substances that can be separated by physical means

  A. Mixture

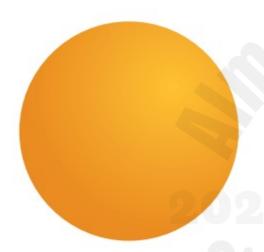
  B. substance

  C. Element

  D. Compound
  - 14. Which of the following is a chemical change?
  - A. Gas burns in an engine.
  - B. Water expands as it freezes
  - C. Glass bends as it is heated.
  - D. Sugar dissolves in a cup of water.
- 15. Table salt (NaCl) is an example of which type of material??
- A. Mixture

B. element

C. colloid D.compound

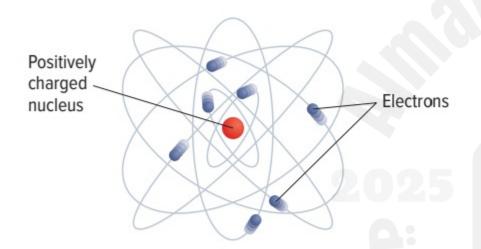


**400 B.C. Democritus Model** Democritus first proposed that elements consist of tiny, solid particles that cannot be subdivided. He called these particles *atomos*, meaning "uncuttable." Democritus's ideas were criticized by Aristotle, who believed that empty space could not exist. Because Aristotle was one of the most influential philosophers of his time, Democritus's atomic theory was rejected.

1904 Thomson Model

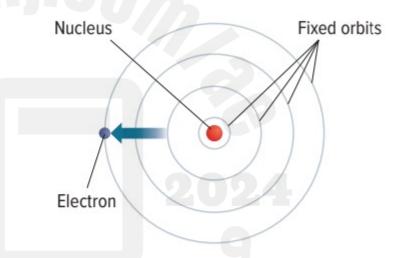
Matter containing evenly distributed positive charge

**1904 Thomson Model** English physicist Joseph John Thomson proposed a model that consisted of a spherical atom containing small, negatively charged particles. He thought these "electrons" (in blue) were evenly embedded throughout a positively charged sphere, much like chocolate chips in a ball of cookie dough.

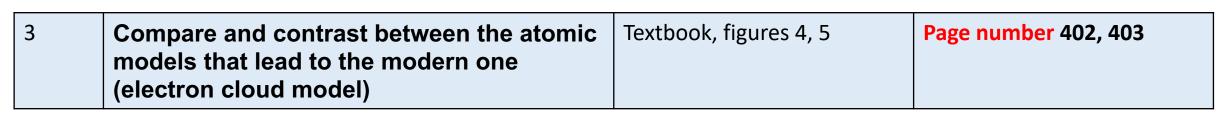


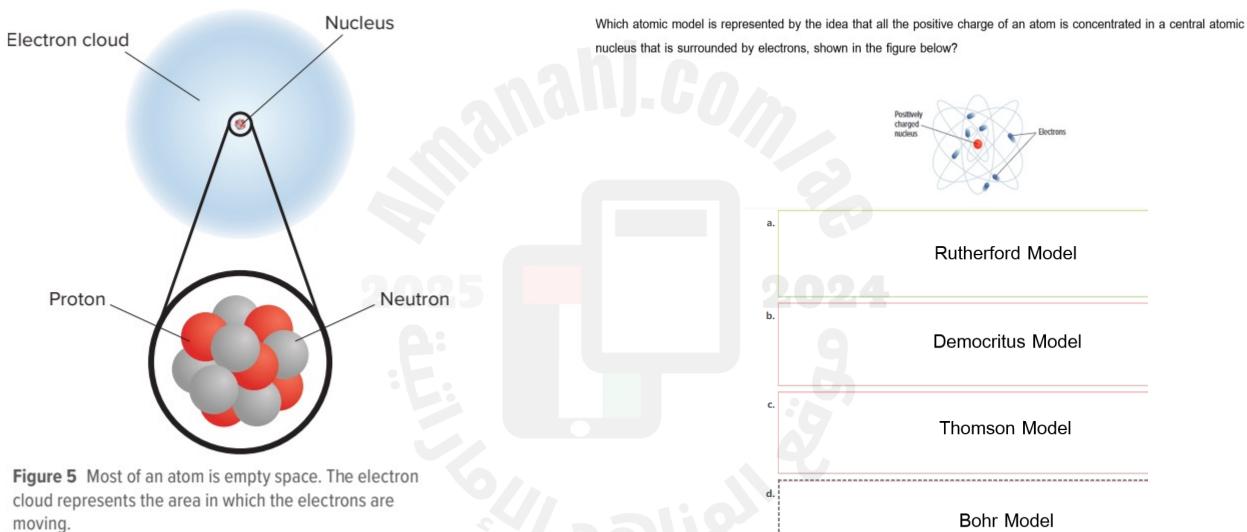
**1911 Rutherford Model** English physicist Ernest Rutherford proposed the idea that all the positive charge of an atom is concentrated in a central atomic nucleus that is surrounded by electrons.

1913 Bohr Model

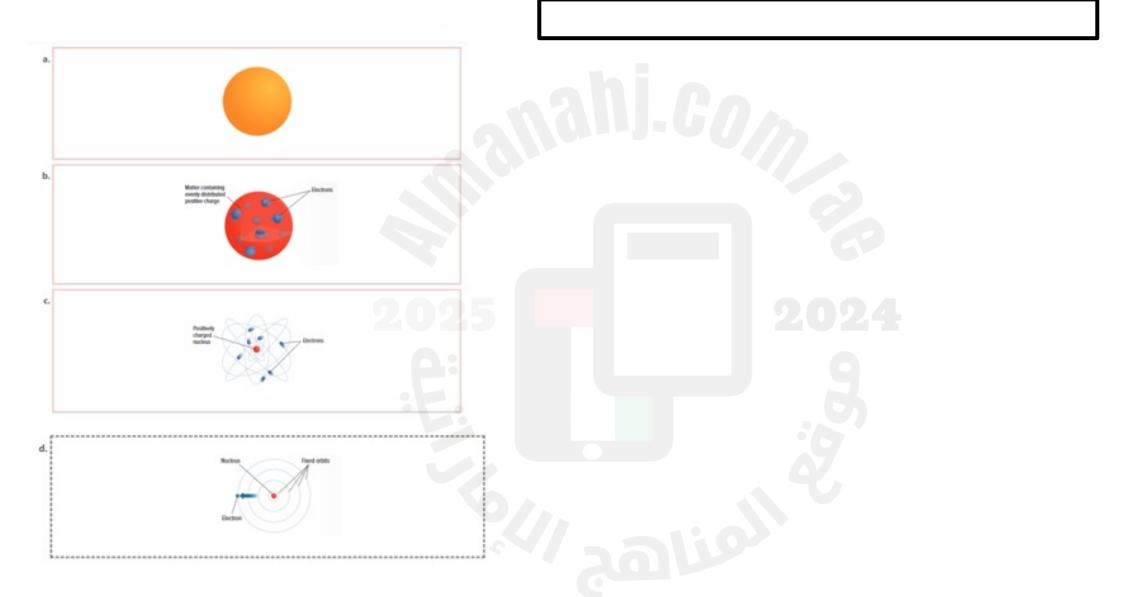


1913 Bohr Model Danish physicist Niels Bohr hypothesized that electrons travel in fixed orbits. He suggested that electrons could jump between orbits as they absorb or release specific amounts of energy. The Bohr model worked very well for hydrogen, but did not work as well for atoms with many electrons.





Which of the following atomic models explained the electron jumps between orbits in hydrogen atom when electrons absorbs or release energy?



4	Compare between the properties of metals and	textbook, periodic table fig	Page number 415, 424, 427,
	nonmetals, Identify the nonmetal & metal part in	15, figures 4, 7, 10, 13,	430, 433
	different chemical compounds (ionic) using the		
	periodic table of element, compare between the		
	alkali metals & alkaline earth metals		

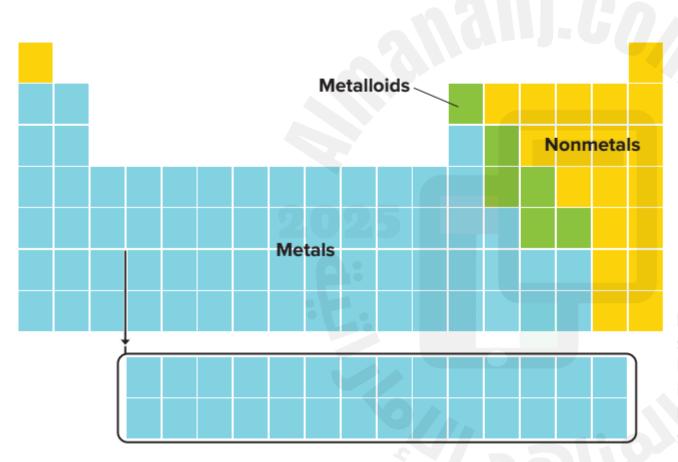
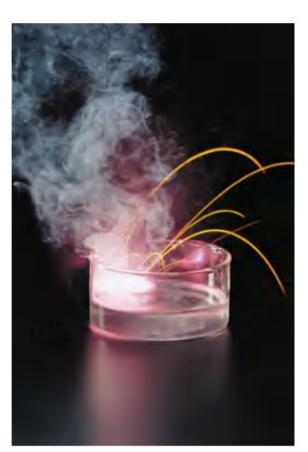


Figure 15 Metalloids are located along the green stair step line in the periodic table. Metals are located to the left of the metalloids and are shown in blue. Except for hydrogen, nonmetals are located to the right of the metalloids and are shown in yellow.

textbook, periodic table fig 15, figures 4, 7, 10, 13,

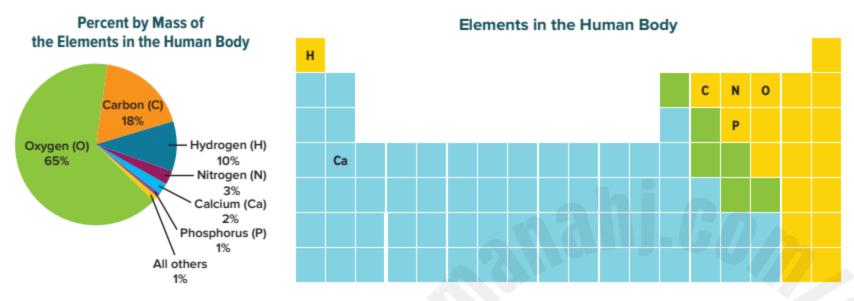
Page number 415, 424, 427, 430, 433



**Figure 4** Alkali metals are very reactive. For example, the vigorous reaction between potassium and water releases enough thermal energy to ignite the hydrogen gas that forms.



**Figure 7** Copper is often mixed with zinc or nickel to make modern coins. Gold, silver, and bronze—an alloy of copper and tin—are used to make athletic medals.



**Figure 10** Humans are composed of mostly nonmetals. The pie chart breaks down the ratio of elements in the human body by mass (left). These elements mostly fall in the nonmetal portion of the periodic table (right).

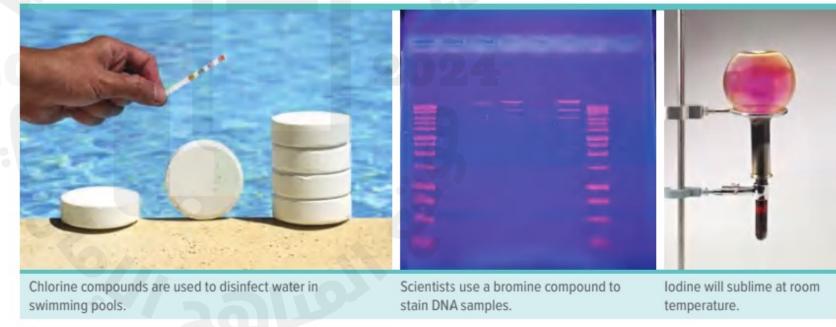


Figure 13 Halogens have a wide variety of uses and properties.

- 1. How many electrons do atoms of the alkali metals have in their outer energy levels?
- A. 1 B. 2 C. 3 D. 4
- 2. Which one of these elements is always found in nature combined with other elements?

A. copper B.silver

C. Magnesium D. gold

3. Which group of elements in the periodic table contains the noble gases?

A. group 3 B.group 8

C. group 13 D.group 18

4. Elements in group 2 of the periodic table are the

A. alkali metals B.transition metals.

C. coinage metals D. alkaline earth metals.

5. Which group of elements in the periodic table is known as the halogens?
A.group 15
B.group 16
C. group 17
D. group 18

6. Which of the following groups contains the most active metals?

A.group 1 B.group 2

C. group 17 D. group 18

7. Which of the following groups contains the most active nonmetals?

A.group 1 B.group 2

C. group 17 D. group 18

8.In the gaseous state, the \_\_\_\_\_ form diatomic covalent molecules.

A.noble gases B.halogens

C.alkaline earth metals D.alkali metals

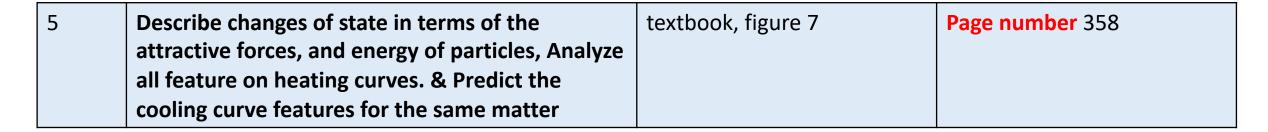
9. Elements from which group all have two electrons in their outer energy levels?A.noble gasesB.halogens

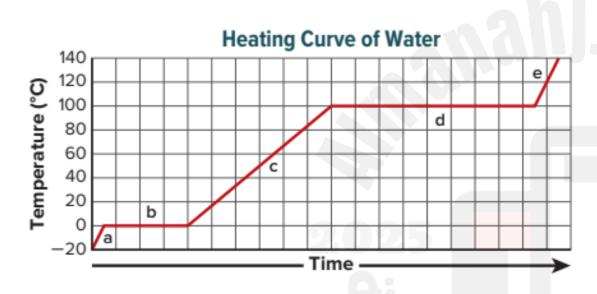
C.alkaline earth metals D.alkali metals

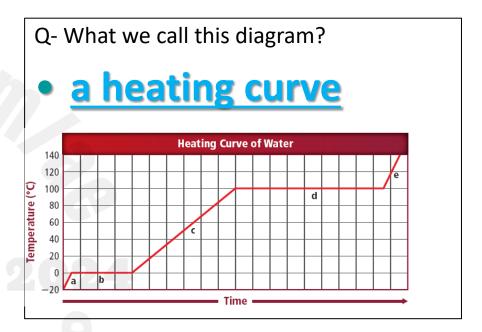
10. When magnesium and fluorine react, what type of bond is formed?

A.Diatomic B.Covalent C. Ionic D. metallic

11. Which type of bonding consists of positively charged ions that are surrounded by a sea of freely moving electrons?
A.Diatomic B.Covalent
C. Ionic D. metallic

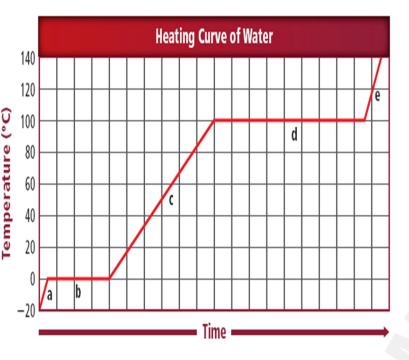






**Figure 7** Although thermal energy is added at a constant rate, the temperature of the water increases only at a, c, and e. At b and d, the added energy is used to overcome the attractions between the particles.

**Infer** how this graph would be different if 2.0 kg of water were being heated instead of 1.0 kg of water. How would this graph be different if 0.5 kg of water were being heated?



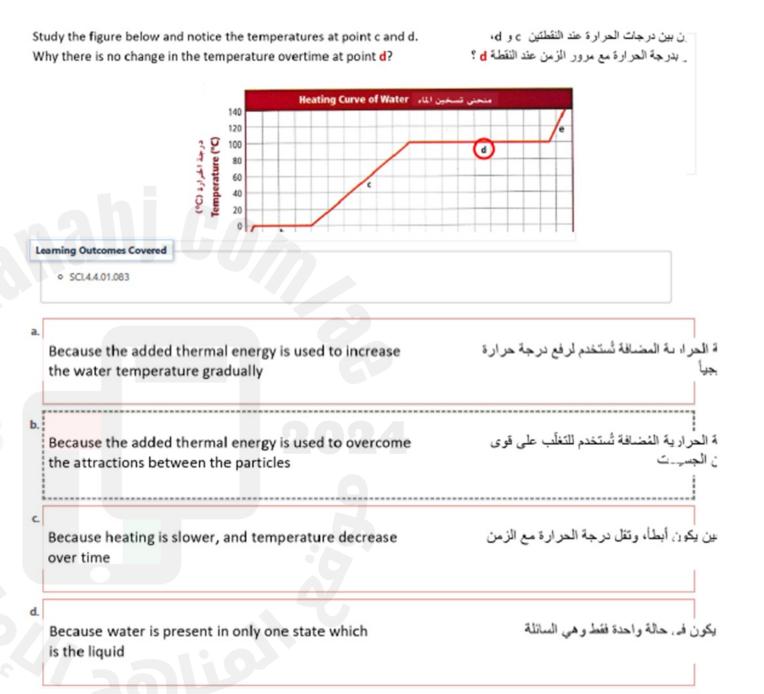
a - Solid state

b – Melting point

C- Liquid state

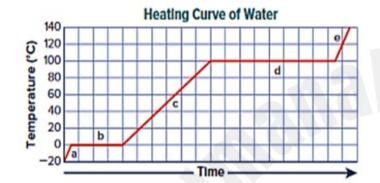
d- boiling point

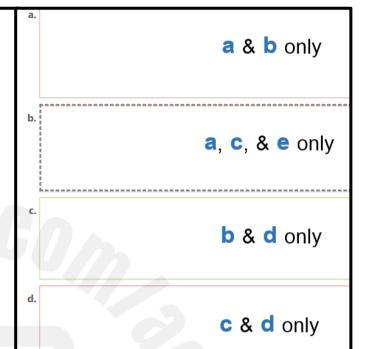
e- gas state



In the heating curve of water below, thermal energy is added at a constant rate.

Which intervals indicate that the added energy is used to overcome the attractions between the particles?





**Answer:C** 

In the heating curve of water below, in which intervals the temperature of water increases?

**Answer:B** 

