

### حلول مراجعة لأهم الأسئلة والنقاط وفق الهيكل الوزاري انسباير

موقع المناهج ← المناهج الإماراتية ← الصف الثامن ← علوم ← الفصل الثالث ← الملف

التواصل الاجتماعي بحسب الصف الثامن			
		CHANNEL	
روابط مواد الصف الثامن على تلغرام			
الرياضيات	<u>اللغة الانجليزية</u>	اللغة العربية	<u>التربية</u> الاسلامي <u>ة</u>

المزيد من الملفات بحسب الصف الثامن والمادة علوم في الفصل الثالث			
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### هیکل Science grade 8

Dr. mohamed

- 1- State the law of conservation of mass.
- 2- What evidence would you observe if the law of conservation of mass is obeyed when mixing two solutions?

### <mark>Ans:</mark>

According to law of conservation of mass the total mass of the products always equal the total mass of the reactants.

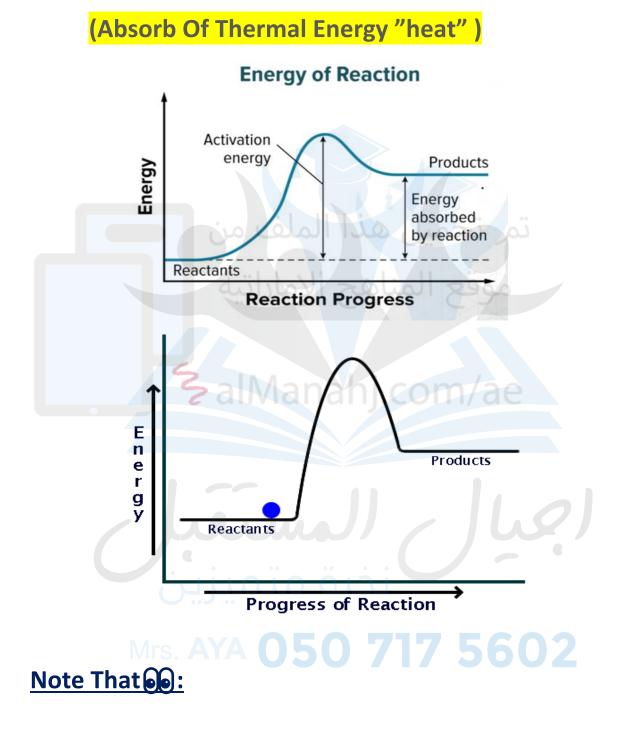
Mass is neither created nor destroyed



### **Reactant Mass = Product Mass**

### 3-What is an endothermic reaction

✓ When the energy needed to keep an endergonic reaction going is in the form of thermal energy,

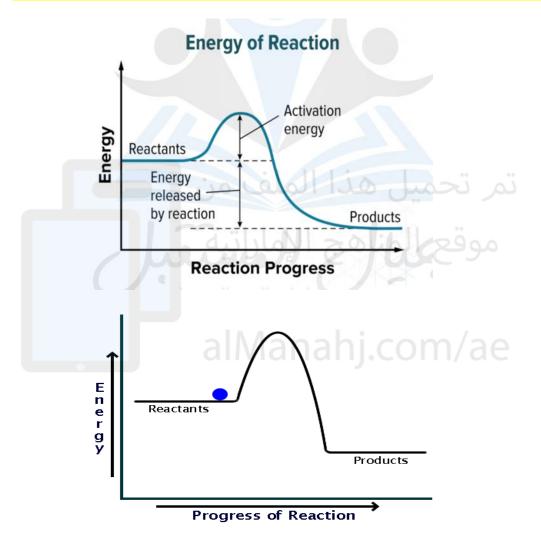


the temperature (energy) of the reactants is higher than the temperature of the products . (Cools the surrounding)

### 4-What is an exothermic reaction?

 ✓ exothermic reaction : When the energy of an exergonic reaction is given off mostly in the form of thermal energy

(release Of thermal Energy (heat ) with the product)



### Note That Sol:

the temperature (energy) of the products is higher than the temperature of the reactants . (Hot surrounding)

### 5-What is the difference between chemical properties and physical properties?

### <u>6-Give examples of physical properties/ chemical</u> properties

### Ans:

<u>physical property</u>: is a characteristic of a substance that can be observed or measured without changing the identity of the substance.

**Examples of physical properties include:** 

boiling point, melting point, freezing point, volume, density texture, color, odor, shape, solubility

<u>Chemical properties:</u> are properties that can be observed or measured when a substance undergoes a chemical change (<mark>A change from one substance to new substance</mark>)

**Examples of chemical properties :** 

Compressibility, radioactivity, toxicity, flammability, heat of combustion, reactivity between chemicals,

### 7-What is solubility?

Ans:

<u>Solubility:</u> is the maximum amount of a solute that can be dissolved in a given amount of solvent at a given temperature.

Solubility is often expressed as grams of solute per 100 g of water.

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### 8-What is conductivity?

Ans:

Conductivity is a measure of the ability of water to pass an electrical current.

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### Remember That Q:

- ✓ <u>Electrolytes:</u> are compounds that produce ions in water. (<u>electrolytes conduct electricity</u>)
- ✓ <u>non electrolytes</u>: Substances that <u>form no ions</u> in water and <u>do not conduct electricity</u>

### <u>9-How do you define reactants and products in a</u> <u>chemical reaction?</u>

<u>Ans.</u>

<u>Reactants:</u> The substances present at the beginning of the reaction

**<u>Reactants</u>**: the substances that react

**Products: The new substances produced** 

B

Reactants

Reactant: Before the Arrow Product: After the Arrow

Chemical Reaction

### 10-What is a chemical reaction? 5602

<u>Ans.</u>

<u>chemical reaction</u> is a change in which one or more substances are converted into new substances.

Products

### **11-** Characterize each reaction by determining its reaction type.

- $CaO+H_2O - > Ca(OH)_2$ .  $Fe+CuSO_4 - - - > FeSO_4+Cu.$  $C_{10}H_8+12O_2 - - > 10CO_2+4H_2O.$ NaCl+ AgNO<sub>3</sub> — — - > NaNO<sub>3</sub> + AgCl (Double displacement Reaction)  $NH_4NO_3 - - - > N_2O + 2H_2O$
- (Synthesis reaction)
  - (Single displacement)
  - (combustion Reaction)

  - (Decomposition reaction)



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### Don't Forget

#### combustion reaction

occurs when a substance reacts with oxygen to produce energy in the form of heat and light. Example:

 $C(s) + O2(g) \longrightarrow CO2(g)$ 

#### Note That 👀:

In combustion reaction we Find in

In the reactant: Oxygen(O2)

In the product: CO2 OR Heat OR light

#### synthesis reaction

(composition Reaction) two or more substances <u>combine to</u> form another substance. Example: H2(g) + Cl2(g)—> 2 HCl(g) A + B —> AB

#### decomposition reaction

one substance <u>breaks down</u> into two or more substances. Example: 2H2O2 (I) —> O2(g) + 2H2O(I)

 $AB \longrightarrow A + B$ 

#### single-displacement reaction

one element replaces another element in a compound. Example: Cu(s) + 2AgNO3(aq) —> Cu(NO3)2(aq) + Ag(s)

 $A + BC \longrightarrow AC + B$ 

#### double-displacement reaction

the positive ion of one compound replaces the positive ion of the other, forming two new compounds

Cu<mark>Cl2</mark>(aq) + 2Na<mark>OH(</mark>aq) —> Cu(<mark>OH)</mark>2(s) + 2Na<mark>Cl</mark>(aq)

AB + CD -> AD + CB

### <u>12-</u> <u>Compare and contrast synthesis reactions and</u> <u>decomposition reactions</u>.

### synthesis reaction

(composition Reaction) two or more substances <u>combine to</u> form another substance. Example: H2(g) + Cl2(g)—> 2 HCl(g) A + B —> AB

### decomposition reaction

one substance <u>breaks down</u> into two or more substances. Example: 2H2O2 (I) —> O2(g) + 2H2O(I)

AB —> A + B

### 13- What kind of reaction produces a precipitate?

<u>Ans.</u>

**Double displacement Reaction** 

### Note That

Precipitate: an insoluble compound that comes out of solution during this type of reaction. (Solid Formed in the Product )

CuCl2(aq) + 2NaOH (aq) ——> Cu(OH)2(s) + 2NaCl(aq)

### <u>14-</u> Describe what happens in a single displacement/ double displacement reaction?

### single-displacement reaction

one element replaces another element in a compound. Example: Cu(s) + 2AgNO3(aq) —> Cu(NO3)2(aq) + Ag(s)

A + BC --> AC + B

 $AB + CD \longrightarrow AD + CB$ 

#### double-displacement reaction

the positive ion of one compound replaces the positive ion of the other, forming two new compounds

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CuCl2(aq) + 2NaOH(aq) -> Cu(OH)2(s) + 2NaCl(aq)

Remember that

Single displacement reaction where A metal will replace any less active metal.

### <u>15- Describe what happens in an oxidation-reduction</u> <u>reaction? Give examples of oxidation-reduction</u> <u>reactions.</u>

### 16- Compare and contrast oxidation and reduction.

<u>Ans.</u>

**Oxidation** is the loss of electrons.

**<u>Reduction</u>** is the gain of the lost electrons.

### Note that

Reduction and oxidation always work as a pair (in the Same time )

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### Example: a Manahi.com/ae

Na – 1e — — > Na<sup>+</sup> (Oxidation reaction)

 $CI + 1e ---> CI^-$  (reduction reaction)

# $H_{2} + F_{2} \rightarrow 2HF$ $H_{2} \rightarrow 2H^{2} + 2e^{2}717 5602$ $F_{2} + 2e^{2} \rightarrow 2F^{2}$

### <u>17- Describe how hydrogen ions are associated with</u> <u>both acids and bases</u>

Ans.

 ✓ Solutions are classified as acidic or basic based on their hydrogen ion concentration relative to pure water.

 $\checkmark$  An acid is any substance that donates H+ to a base.

 $\checkmark$  A base is any substance that accepts H+ from acids.

### Note that

Acidic solutions have a higher H+ concentration in water while basic (alkaline) solutions have a lower H+ concentration in water

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18- Describe how an acidic solution forms when an acid is mixed in water and how a basic solution forms when a base is mixed in water?

An acid is a substance that produces hydrogen ions (H+) in a water solution.

An acid ionizes in water, producing hydronium ions

A base is a substance that produces hydroxide ions (OH<sup>-</sup>) when it is dissolved in water.

Also, a base is any substance that accepts H+ from acids. In water, such bases dissociate, forming positive metal ions and hydroxide ions.

### 19- Explain how a reaction could be endothermic but not exothermic. Ans. > An exothermic process releases heat, causing the temperature of the immediate surroundings to rise. An endothermic process absorbs heat and cools the surroundings تم تحميل هذا الملف من **Endothermic Reaction Examples Exothermic Reaction Examples** Evaporation of water **Baking bread** Formation of snow **Burning candle** Frying Eggs **Burning wood** Photosynthesis Gas burner in use

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# <u>20-</u> Why is a log fire considered to be an exothermic reaction?

<u>Ans.</u>

Because The combustion of wood is an exothermic reaction that releases a lot of energy as heat

# 21- What is the energy required to start a chemical reaction called?

<u>Ans.</u>

**Activation energy** 

### 22- Why do most of the chemical reactions need activation energy?

Ans.

 ✓ Because activation energy is the minimum amount of energy that make the reactant react to result in a chemical reaction.
 ✓ the energy required to start a chemical reaction

# 23- How do you know which substance is the solute in a solid solution?

Ans.

- ✓ When a solid or gas dissolves in a liquid, the solid or gas is the solute, and the liquid is the solvent.
- A solute is the material present in the smaller amount in the solution.

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### Note That So:

A solute: is a substance being dissolved. ( the smaller quantity) A solvent: is a substance in which a solute is dissolved. ( larger quantity)

### 24- What is an alloy?

Ans.

Alloy: is a mixture of elements that has metallic properties. ( mix of two metals)

### Example:

- a) Sterling silver is an alloy of 92.5 percent silver (solvent) and 7.5 percent copper (solute).
- b)alloy of 99 percent gold (solvent) and 1 percent copper (solute)
- c) Alloy of 85 percent copper and 15 percent tin

# 25- Why does breaking up a solid solute into smaller pieces help it dissolve more quickly?

Ans.

Because Breaking a solute into smaller pieces increases its surface area and increases its rate of solution.

### Remember that Q:

More surface area means that more solute comes in contact with the solvent. When the surface area of the solute increases, <u>the solute dissolves more quickly</u>

### <u>26-</u> <u>Describe how stirring, surface area and temperature</u> <u>affect the rate of dissolving</u>

Ans.

The rate at which a solute dissolves into a solvent can be increased by:

a) stirring

b) increasing the surface area of the solute

c) increasing the temperature of the solvent

### Read that

a) Stirring a solution speeds up the dissolving process by making the solvent and solute particles move faster. More solvent particles come into contact with more solute particles. The solid solute dissolves more quickly.

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b) When you break a solid solute into smaller pieces, you increase its surface area. More surface area means that more solute comes in contact with the solvent. When the surface area of the solute increases, the solute dissolves more quickly

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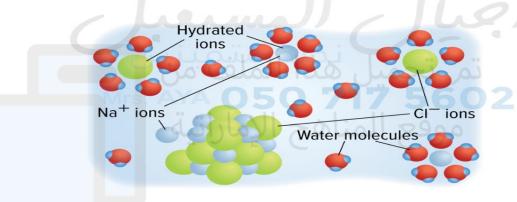
c) Solvent particles move faster when the temperature of the solvent increases. Fast-moving solvent particles have more chances to come in contact with solute particles. The more often they come in contact, the faster the solute particles break loose and dissolve.

### 27- Compare and contrast the differences and similarities between ionization and dissociation.

<u>Ionization</u>: is a process in which molecular compounds dissolve in water and separate into charged particles (ions)

Example: H20 surrounds HCl molecules and pulls them apart to form H+ and Cl<sup>-</sup> ions.

**Dissociation:** is a process in which positive and negative ions of an ionic solid mix with solvent to form a solution.



### <u>28-</u> Describe the two ways that solutions of electrolytes form

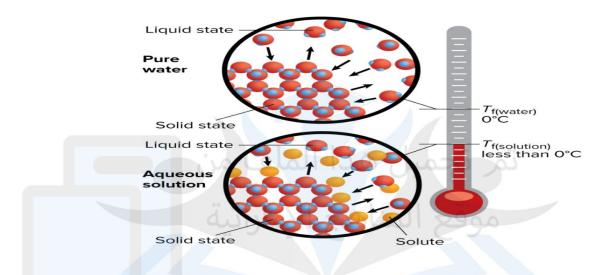
<u>Ans.</u>

### ionization and dissociation

- Ionization is a process in which molecular compounds dissolve in water and separate into charged particles (ions) (conversion of a substance into ions)
- ✓ <u>Dissociation</u> is a process of separation of charged particles which already exist in a compound.

<u>29-</u> Explain how the concentration of a solute in a solution influences its boiling point and freezing point

Adding a solute to a solvent <u>lowers</u> the freezing point.
 The solute interferes with the arrangement of particles as the solid forms.
 Example: antifreeze



 Adding a solute to a solvent <u>raises the boiling point.</u> Solute particles blocks the surface



In a beaker of pure water, water molecules vaporize freely from the surface.

Solute particles block part of the surface, making it more diffcult for solvent to vaporize.

### <u>30-</u> <u>Describe how antifreeze affect the vapor pressure of a pure</u> <u>solvent.</u>

Ans.

Freezing point is the temperature at which vapor pressure of solution and liquid phase becomes equal.

Reason: On adding antifreeze, vapor pressure decreases so Freezing Point also decreases depression in Freezing Point.

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### Note That

- Antifreeze molecules added to the water block the formation of ice crystals.
- When enough solute particles are present, water cannot freeze at 0°C.
- ✓ Solute particles block part of the surface, so fewer water molecules can reach the surface and vaporize. The solution cannot boil because the vapor pressure of the solution is lower than the vapor pressure of the solvent. Energy must be added to overcome the interference and raise the vapor pressure of the solution to make it boil. The added energy means the solution boils at a temperature higher than the boiling of the pure water

# 31- Why is it dangerous to take large doses of some non polar vitamins?

Ans.

Some vitamins, such as vitamin A, are non polar. They dissolve in fat, which is also non polar.

They can accumulate to toxic levels in your body if you take too many.

### Note That

Some vitamins, such as vitamin A, are non polar.

- They dissolve in fat, which is also non polar.
- They can <u>accumulate to toxic levels</u> in your body if you take too many.

Other vitamins, such as vitamins B and C, are polar molecules, so they dissolve in water.

They <u>do not accumulate</u> in tissue because excess vitamin is washed away by water in the body.

### 32- Why is it necessary to replace water-soluble vitamins more quickly than fat-soluble vitamins?

### <u>Ans.</u>

✓ Because water-soluble vitamins cannot be stored in your body for very long, because excess of polar vitamins is washed away by water in the body.

33- Explain how a polar solvent dissolves a polar solute and how a nonpolar solvent dissolves a nonpolar solute?

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### Ans.

<u>Polar solvents</u>: will dissolve polar and ionic solutes because of the attraction of the opposite charges on the solvent and solute particles.

<u>Non-polar solvents</u>: will only dissolve non-polar solutes because they cannot attract the ions as they does not have positive and negative areas.

### 34- Explain how one solute can dissolve in both polar and non-polar solvents.

Ans.

- ✓ Some substances -such as soap and ethanol have a polar end and a non-polar end.
- The non-polar end of soap dissolves in non polar solvents (as oil),
- while the polar end of soap dissolves in polar solvents( as water).
- This allows one solute to dissolve in both polar and non polar

Soap Molecule



35- Identify and describe three ways equilibrium can be shifted in a reversible reaction. Explain each shift in terms of Le Châtelier's principle and identify whether the shift will be toward products or reactants.

Ans.

N2 (g) + 3H2(g) = 2NH3(g) + energy

Changing concentration, The concentration of ammonia decreases, which causes the rate of the reverse reaction to decrease. As a result, the forward reaction is temporarily faster than the reverse reaction- described as a shift to the right-and more ammonia is formed.

 Changing temperature If the temperature is reduced the equilibrium responds by reacting to release energy and raise the temperature. A shift to the right occurs. More ammonia is formed as a result.

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Changing volume and pressure The pressure can be reduced by decreasing the number of gas molecules. Because the product (NH3) side of the equation has fewer gas molecules (2) than the reactant side (4), the equilibrium shifts to the right. More ammonia is formed as a result.

### <u>36-</u> <u>Compare and contrast chemical and physical</u> <u>equilibrium.</u>

Ans.

- A physical equilibrium is a state of equilibrium in which the physical state of the system remains unchanged.
- Chemical equilibrium is a state of affairs in which the concentrations of reactants and products do not change during the reaction.

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### Note That So:

When opposing physical changes take place at equal rates, a state of physical equilibrium exists.

Similarly, when opposing chemical reactions take place at equal rates, a state of chemical equilibrium exists.

N2(g) + 3H2(g) <----> 2NH3 (g) + energy Mrs. AYA 050 717 5602

### <u>37- What is the effect of increasing/decreasing the</u> pressure of a gas over a liquid?

# <u>38-</u> What happens to the solubility of a gas in a liquid if the temperature of the gas is increased?

### Ans.

Solubility of gases increases by

- **1-Increasing the pressure**
- 2-Decreasing the temperature

### Note that Op:

- ✓ Increasing the pressure of a gas over a liquid forces more gas to dissolve in the liquid.
- Cooling a liquid increases the amount of gas that will dissolve in it.

### <u>39- Explain how the temperature of a liquid solvent</u> <u>affects the solubility of a solid compound?</u>

### Ans.

As the temperature of a liquid solvent <u>increases</u>, the amount of solid solute that can dissolve into it increases (<u>Solubility increases</u>)

### 40- Compare and contrast solubility and concentration.

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### Ans.

<u>The concentration of a solution</u>: is the amount of <u>solute</u> dissolved in a given amount of solvent.

Solubility: is the maximum amount of a solute that can be dissolved in a given amount of solvent at a given temperature.

### Remember That

- ✓ <u>Concentration</u> gives the amount of substances in a solution.
- ✓ <u>Solubility</u> is the ability of a substance to dissolve in another substance.
- ✓ If the solubility of a material is high in a solvent, then its concentration will be high in the solution. Similarly, if the solubility is low, concentration will be low

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### Don't Forget 😱:

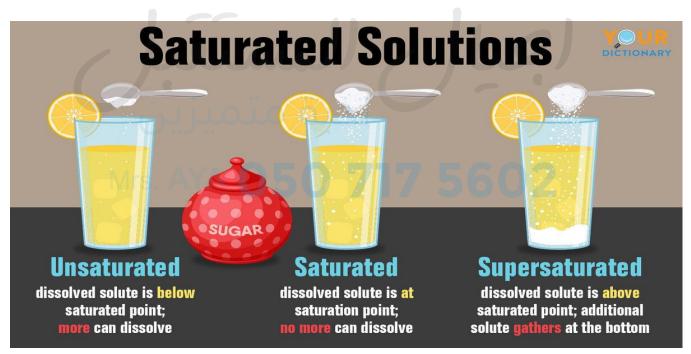
Concentration: is percentage by volume.

Solubility is often expressed as grams of solute per 100 g of water.

### <u>41- You are given a solution containing potassium</u> <u>nitrate dissolved in water. How could you determine</u> <u>whether the solution is unsaturated, saturated, or</u> <u>supersaturated?</u>

### Ans.

- If the amount of added solute is less than the solubility number then this solution is unsaturated solution
- If the amount of added solute is equal to the solubility number then this solution is saturated solution
- A supersaturated solution: is one that contains more solute than a saturated solution at the same temperature. They may form <u>crystals</u> or precipitate or remains of undissolved solute when a more solute is added.



### Acid and bases Notes

### Acids

An acid is a substance that produces hydrogen ions (H) in a water solution.

The H ions interact with water molecules to produce hydronium ions: H<sub>0</sub>O.

- > Acids are corrosive,
- Acids cause the sour taste in foods such as limes and pickles.
- Acids react with indicators. Blue litmus paper turns red in acids.

### **Reaction of acids with water**

An acid <mark>ionizes</mark> in water, producing hydronium ions when the hydrogen ions from the acid become attracted to water molecules.

### **Bases**

- base is a substance that produces hydroxide ions OH when it is dissolved in water.
- Also, a base is any substance that accepts H+ from acids. (Can react with acids)
- bases feel slippery and have a bitter taste. They are corrosive and can burn skin.
- Red litmus paper turns blue in bases.

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### **Reaction of bases with water**

Most bases are ionic compounds, made up of positive metal ions and hydroxide ions. In water, such bases <mark>dissociate</mark>, forming positive metal ions and hydroxide ions.

### Only Read this point Q:

- Some bases accept H+ ions from acids.
- These types of bases <u>iONize</u> to produce hydroxide ions in solution, even though they do not have the letters OH in their formulas.
- For example, ammonia, NH3, reacts with water to produce hydroxide ions in solution. In this case, water acts as an acid.

In case of

- $\checkmark$  strong acid, all the acid ionizes upon dissolving in water.
- weak acid, only a small fraction of the molecules ionize upon dissolving in water.

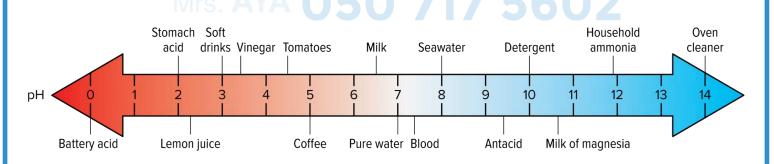
In case of

- ✓ <u>strong base dissociates completely upon dissolving in water.</u>
- ✓ weak base is one that does not ionize completely.

Strong and weak refer to the degree of ionization of the acid or base.

The pH of a solution is a measure of the concentration of H+ (H3O+) ions in solution.

- ✓ Solutions with pH lower than 7 are acidic.
- ✓ Solutions with pH greater than 7 are basic.
- ✓ A solution with a pH of 7 is a neutral solution.



- ✓ <u>Buffers</u> are solutions containing ions that react with acids or bases to minimize their effects on pH
- <u>Neutralization</u> is a chemical reaction in which an acid and a base form a salt and water.
- ✓ <u>Titration</u> is the process in which a solution of known concentration is used to determine the concentration of another solution

### Surface area calculations

Dimensions:

•••

 $\begin{array}{l} l = 2 \mathrm{cm} - \mathrm{length} \\ w = 1 \mathrm{cm} - \mathrm{width} \\ h = 0.5 \mathrm{cm} - \mathrm{heigh} \end{array}$ 

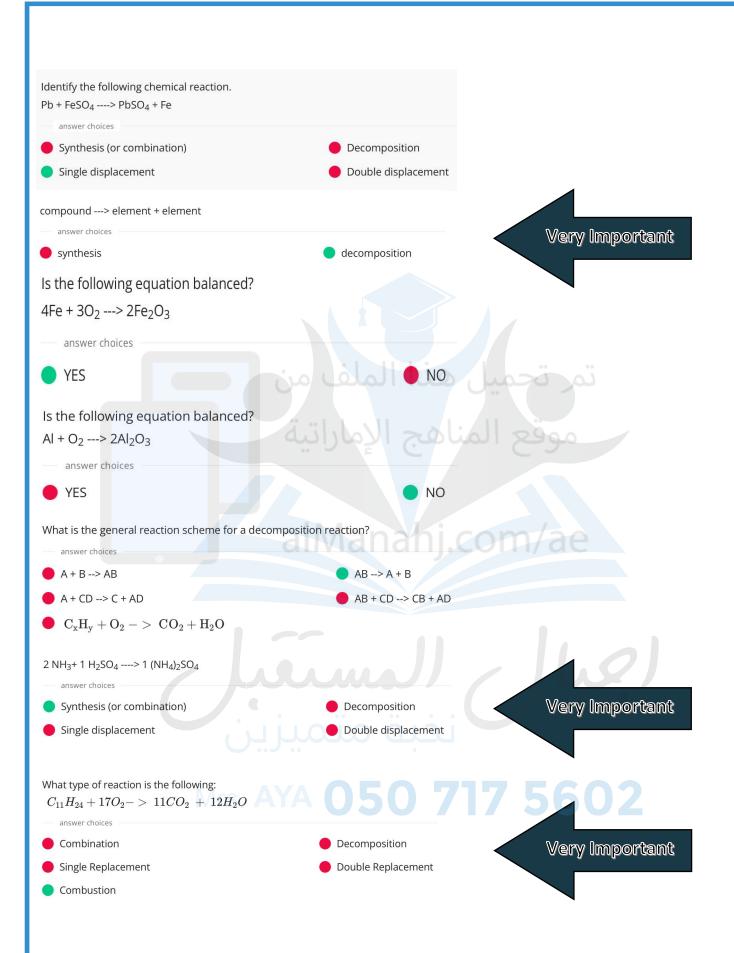
\* Surface area for rectangular solid is given as:

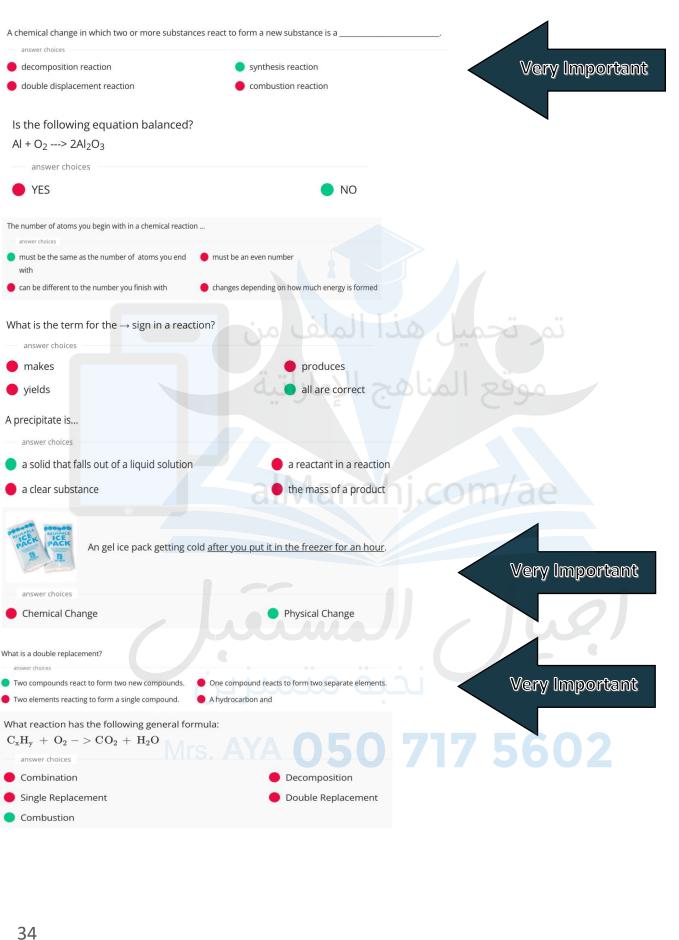
 $\mathbf{A} = 2(\mathbf{wl} + \mathbf{hl} + \mathbf{hw})$ 

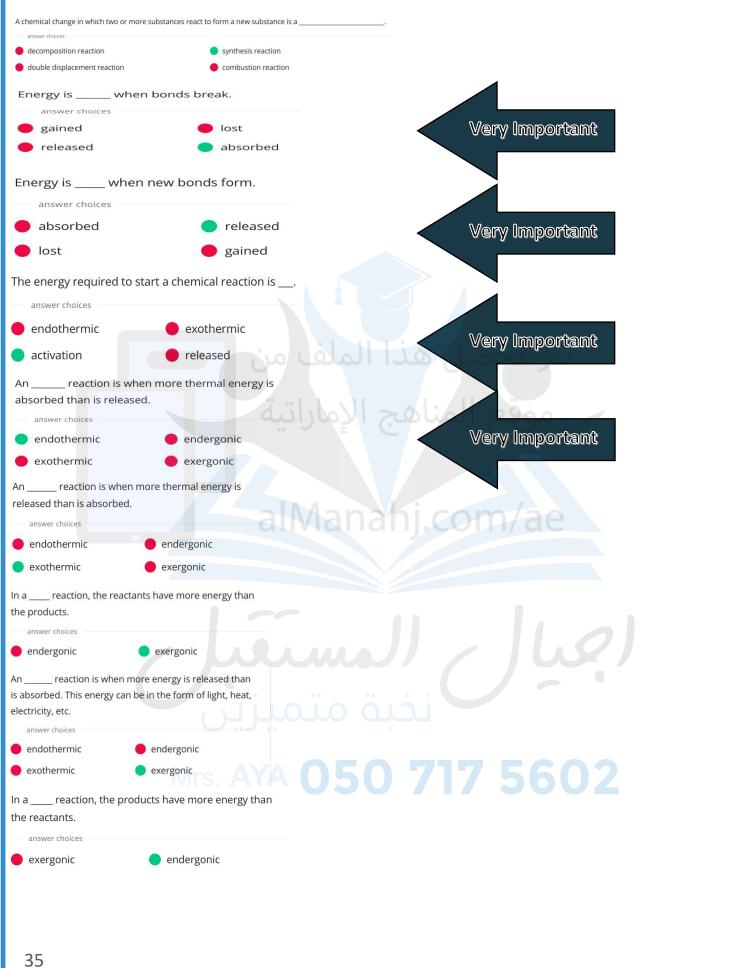
Substitute given values and calculate surface area:

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### A = 2(wl + hl + hw)Mrs. AYA 050=2(1/2+0.5)2+0.5 · 1) = 7cm<sup>2</sup>

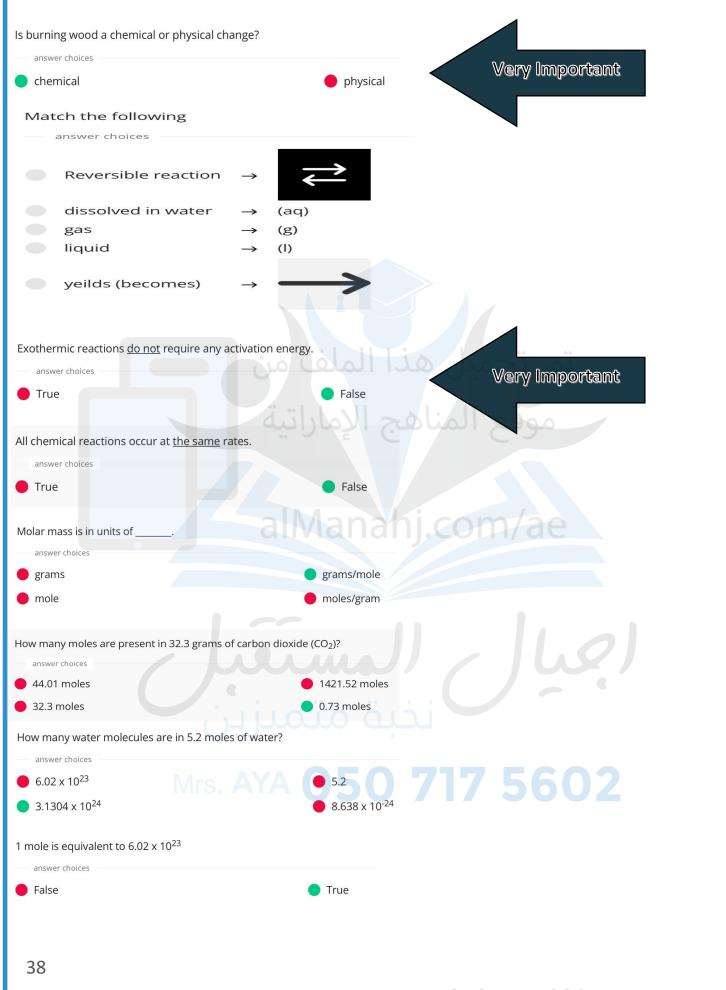




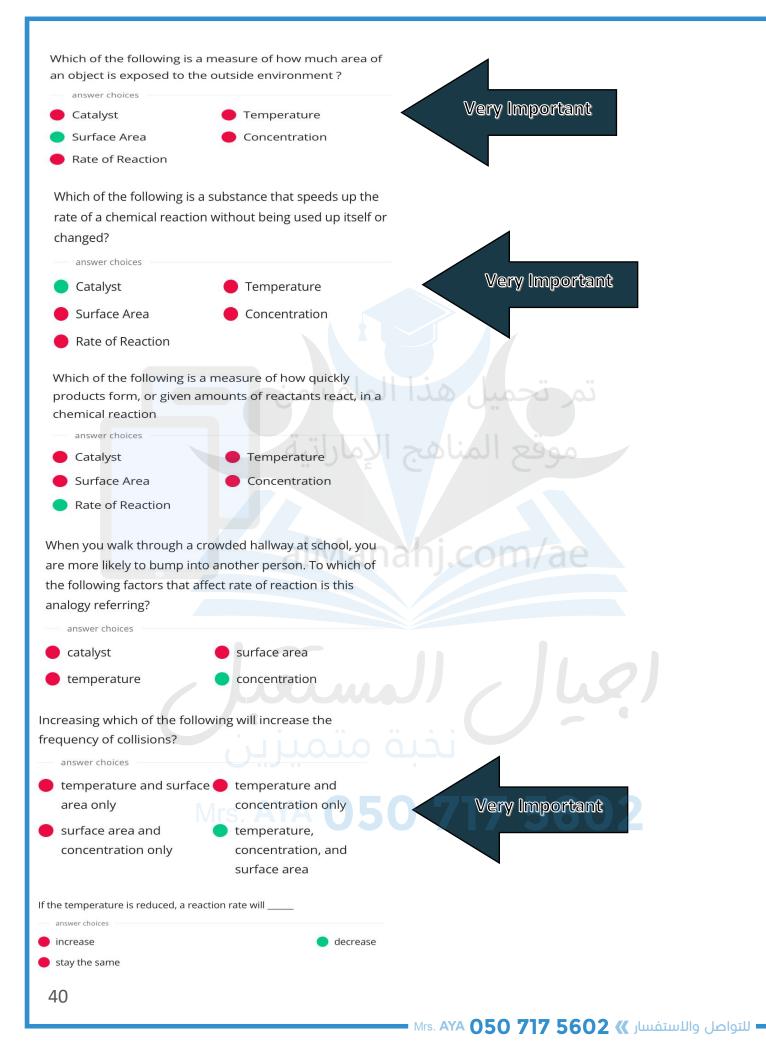


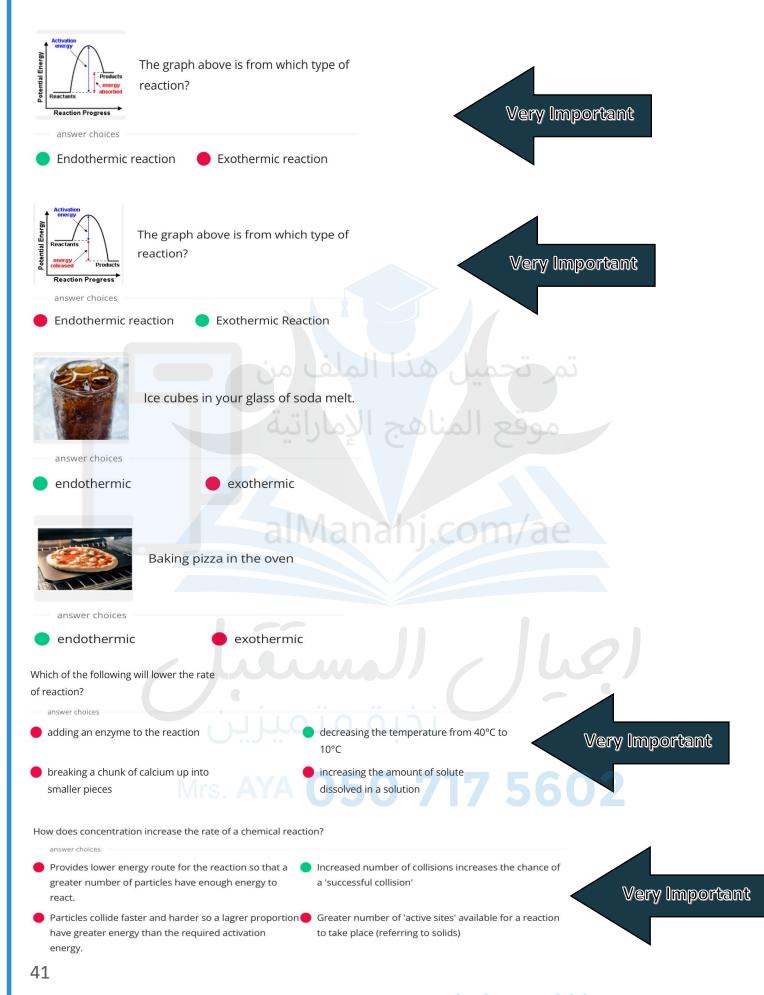
An rea	eaction is when more energy is absorbed than	
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	If a chemical reaction produces light or sound, it is likely a reaction.	
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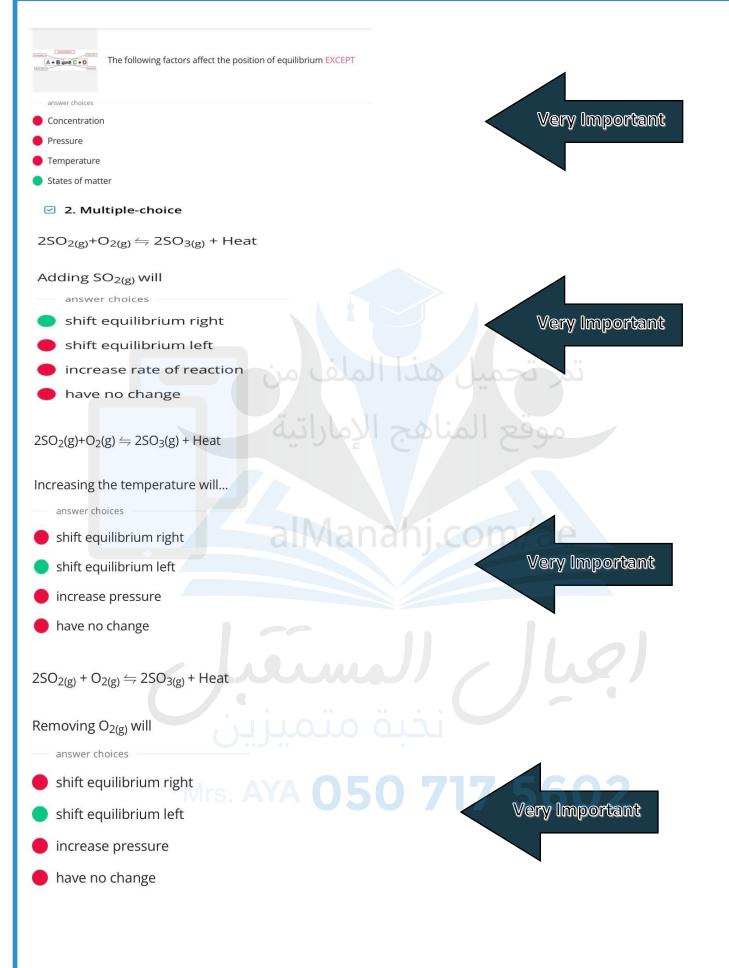
b denombaction of gasoline endothermic or southermic • indothermic • indothermic • indothermic • or due and endothermic reaction feel? • or and and that an physical none of the above • or energical are used • or en			
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two does an exothermic reaction feet?	answer choices		Very Important
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<ul> <li>cd</li> <li>ware</li> <li>b. Construction</li> <li>construction</li> <li>constr</li></ul>	How does an exothermic reaction feel?		
<ul> <li>y vu ant feel i</li></ul>			
A demical charge is different than a physical change because in a chemical change insertion: a resultance is formed b resultance c resultance c resultance b resultance b resultance b resultance c resultance b resultance c resultance b resultance c r			
event where the following equations is balanced or unbalanced. $2F + 3C_2 - > FeC_3$ Balanced University of the following equations is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is balanced or unbalanced. $4F + 0_2 - > 2H_20$ Descussion of the following equation is called the	Vou can't feel it	None of the above	4
<ul> <li>chemicals are used</li> <li>an eva substrate is formed and in a physical no real</li> <li>the change can be seen but in a physical drama it is substrate is formed</li> <li>the change can be seen but in a physical drama it is substrate is formed</li> <li>the change can be seen but in a physical drama it is substrate is formed</li> <li>the change can be seen but in a physical drama it is substrate is formed</li> <li>the change can be seen but in a physical drama it is substrate is formed</li> <li>the change can be seen but in a physical drama it is substrate is substrate is drama it is substrate is formed</li> <li>the created or destroyed but not transformed</li> <li>the created or destroyed but not transformed</li> <li>the created or destroyed or transformed</li> <li>the created or unbalanced. 2Fe + 3Cl<sub>2</sub>&gt; FeCl<sub>3</sub></li> <li>the created or unbalanced or unbalanced. 2Fe + 3Cl<sub>2</sub>&gt; FeCl<sub>3</sub></li> <li>the created or destroyed or unbalanced or unbalanced. The the 0&gt; 2H<sub>2</sub>O</li> <li>the created or destroyed or transformed</li> <li>the scatant</li> <lithe li="" scatant<=""> <li>the scatant</li> <lithe s<="" td=""><td>A chemical change is different than a physical change becau</td><td>use in a chemical change</td><td></td></lithe></lithe></ul>	A chemical change is different than a physical change becau	use in a chemical change	
<ul> <li>a new substance is formed and in a physical none with a change can be seen but in a physical change is indicated in the substance is formed with the next can be seen but in a physical change is indicated in the substance is formed with the next can be seen but in a physical change is indicated in the substance is indicated in</li></ul>			Verw Important
substance is formed			
<pre>sections: to server concest to server choices balanced     conserve choices     balanced     conserve choices     conserve choice     conserve choices     conserve choice     conserve choic</pre>			
<ul> <li>to warm up the reaction</li> <li>to a create more reactants</li> <li>to a create more reactants</li> <li>to a create more reactants</li> <li>the word Conservation of Energy states:</li> <li>were more</li> <li>Energy can created or destroyed but not transformed</li> <li>Energy can created or destroyed out not transformed</li> <li>Energy can the created, destroyed or transformed</li> <li>Reactant</li> <li>Ourbalanced</li> <li>Unbalanced</li> <li>Unbalanced</li> <li>Unbalanced</li> <li>Unbalanced</li> <li>Unbalanced</li> <li>In this image, what are the information in red is called the</li></ul>	Some chemical reactions require a subs	tance called a catalyst. The purpose of a catalyst is	
b to create more reactants b to stop the reaction b to stop the reaction b to stop the reaction c to created or destroyed but not transformed c hergy can reated or destroyed but not transformed c hergy can to be created, destroyed or transformed b to created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can to be created, destroyed or transformed c hergy can created or destroyed or unbalanced. 2Fe + 3Cl2> FeCl3 a store choices B halanced u hubbalanced u hubbalan		in the line	
he Law of Conservation of Energy states: Inergy can and reated or destroyed but not transformed he process by which one or more substances change to produce one or more different substances answer chaices Chemical Process Chemical Process Chemical Reaction etermine whether the following equation is balanced or unbalanced. 2Fe + 3Cl <sub>2</sub> > FeCl <sub>3</sub> answer chaices Balanced etermine whether the following equations is balanced or unbalanced. H <sub>4</sub> + O <sub>2</sub> > 2H <sub>2</sub> O answer chaices Balanced Lubalanced			
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benergy can created or destroyed but not transformed benergy cant be created, destroyed or transformed benergy cant be created, destroyed, d		ع المناهج الإماراتية	902
Energy can't be created, destroyed or transformed the process by which one or more substances change to produce one or more different substances answer choices Chemical Process Chemical Reaction etermine whether the following equation is balanced or unbalanced. 2Fe + 3Cl <sub>2</sub> > FeCl <sub>3</sub> answer choices Balanced etermine whether the following equations is balanced or unbalanced. H <sub>4</sub> + O <sub>2</sub> > 2H <sub>2</sub> O answer choices Balanced Unbalanced Unbalanced Unbalanced Unbalanced Unbalanced In this image, what are the information in red is called the answer choices Product Product			Very Important
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Chemical Reaction   etermine whether the following equation is balanced or unbalanced. 2Fe + 3Cl <sub>2</sub> > FeCl <sub>3</sub> answer choices   Balanced   Unbalanced   answer choices   Balanced   Unbalanced   In this image, what are the information in red is called the   Product   Reactant	Chemical Process	Reactant	Warw Important
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Mrs. AYA 050 717 5602 a+CI → NaCI In this image, what are the information in red is called the answer choices Product • Reactant			
In this image, what are the information in red is called the         answer choices         Product       Reactant	Balanced	Unbalanced	
In this image, what are the information in red is called the         answer choices         Product       ■ Reactant			
Product Reactant	$a + CI \rightarrow NaCI$ In this image, what are the in		
		-	
Chemical Subscript Coefficient	Product	Reactant	
	Chemical Subscript	Coefficient	
37	37		



1 mole of Ca and 1 mole of Na have the same number of atoms. answer choices False True Vitamin C, also known as ascorbic acid, is water soluble and cannot be produced by the human body. Each day, a person's diet should include a source of Vitamin C, such as orange juice. Ascorbic acid has a molecular formula of C<sub>6</sub>H<sub>8</sub>O<sub>6</sub> and a molar mass of 176 grams per mole. Determine the number of moles of vitamin C in an orange that contains 0.171 grams of vitamin C. answer choices 30.1 moles 1030 moles .000971 moles .0001 mole What is Avogadro's Number? answer choices 6.02 10<sup>23</sup> 6.02 x 10<sup>23</sup> 6.02 x 10<sup>22</sup> 6,020,000,000,000 What is the mole used for? answer choices To measure the amount of grams in a substance To measure the amount of atoms or molecules in a substance To measure the amount of energy in a substance To measure the amount of bonding in a substance The substances that go into a reaction are called the \_\_\_\_\_ answer choices reactants products So, the Law of Conservation of Mass would tell us that the mass of all the REACTANTS must \_\_\_\_\_\_ the mass of all **Very Important PRODUCTS** in a chemical reaction. answer choices equal be greater than be less than An ENDOTHERMIC reaction would feel \_ \_ to the touch, while an **EXOTHERMIC** reaction would feel \_\_\_\_\_\_ to the touch. answer choices **Very Important** cold ; hot hot ; cold Is the following equation balanced? 4Fe + 3O<sub>2</sub> --> 2Fe<sub>2</sub>O<sub>3</sub> answer choices ) yes Smaller particle size allows for a \_\_\_\_\_\_ surface area to be exposed for the reaction. **Very Important** answer choices smaller larger









### $CoCl_s^{2^*} + 6H_sO \iff Co(H_sO)_s^{2^*} + 4Cl^{-1}$

 $CoCl_4^{2-} + 6H_2O \rightarrow Co(H_2O)_6^{2+} + 4Cl^{-1}$ 

What will happen when Cl<sup>-</sup> ions are added?

#### answer choices

- Position of equilibrium will shift to left and become more pink
- Color of system will turn to all pink
- Concentration of reactants and products remain unchanged
- Position of equilibrium will shift to left to reduce the added Cl<sup>-</sup> ions

# $2 \text{CrO}_4^{2-} + 2\text{H}^+ \rightarrow \text{Cr}_2\text{O}_7^{2-} + \text{H}_2\text{O}_7^{2-}$

What will happen when H<sup>+</sup> ions are added to the system?

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## answer choices

- Position of equilibrium will shift to left and become more yellow
- Color of system will turn all yellow
- Color of system will turn all orange
- Equilibrium will shift to right and become more orange

## Very Important

# **Unit 2 extra important questions**

A mixture that appears to have the same composition, color, and density and is mixed at the molecular level is called a(n) **Very Important** answer choices solution heterogeneous mixture suspension element Which of the following is a solution? answer choices salt water milk chlorine muddy water \_ is the substance being dissolved in a solution. answer choices Very Important solvent insolvent substrate solute Air contains 78 percent nitrogen, 21 percent oxygen, and one percent argon. Which gas is the solvent? answer choices oxygen argon 🔵 nitrogen none of the answers are correct Sterling silver contains 92.5 percent silver and 7.5 percent copper. Which substance is the solute? answer choices silver copper solids do not form platinum solutions Which of the following actions increases the rate of dissolving? answer choices **Very Important** decreasing the keeping the pressure temperature constant decreasing the pressure 🔵 stirring the solution 45

<pre>snow the decide that can dissolve it</pre>		quid solvent increases, the	
<ul> <li>decreases</li> <li>increases</li> <li>decreases by 12 Celsus for every millifier of solven</li> </ul> Winy fumportiant Very fumport	amount of solute that car	n dissolve it	
<ul> <li>increases</li> <li>incr</li></ul>	answer choices	200	
brevery milliter of solutions subine is	ecreases	eremains constant	ery important
<pre>steer doles i hongeneous mixture i loled colled to the doles of the dissolving is called at:</pre>	increases	for every milliliter of	
Indegeneous mixture <td< td=""><td>solution is a</td><td></td><td></td></td<>	solution is a		
Prederogeneous mixture   Predrogeneous mixture Pure substance    Predrogeneous mixture Pre	answer choices		Very Important
re ubtance doing the dissolving is called a:	Homogeneous mixture	Heterogeneous mixture	
sover choices brane b	Colloid	Pure substance	
Solvent • Solute     Reactant:           A mounts of fuel injector cleaner are sometimes added to the petrol when you fill up a car. Which is the solvent in the sace?              The fuel injector cleaner    The fuel injector cleaner    The petrol <b>Copper Tin Copper Coping down Coloing down</b>	he substance doing the dissol	ving is called a:	
Reatent Product   The number so of the linjector cleaner are sometimes added to the petrol when you fill up a car. Which is the solvent in this case?   Image: Solution of the linjector cleaner   The car   Image: Solution of the following can help to speed up the process of dissolving?   Inthe of the following can help to speed up the process of dissolving?   Inthe of the following can help to speed up the process of dissolving?   Intring/shaking   Intring/shaking   Coping down   Increasing surface area   The water is dissolving salt, the negative ends of the water molecules attach to negative cholride ions and pull the to the water solution.	answer choices		
and anounts of fuel injector cleaner are sometimes added to the petrol when you fill up a car. Which is the solven in this case?   Image: Im	Solvent	Solute	Very Important
his case? The fuel injector cleaner The petrol Arss is an alloy made of 85% copper and 15% tin. Which is the solute in this case? Arss is an alloy made of 85% copper and 15% tin. Which is the solute in this case? Arswer choices Brass The copper The copper The copper The copper Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving alloy Mich of the following can help to speed up the process of dissolving? Alloy Mich of the following can help to speed up the process of dissolving? Mich of the following can help to speed up the process of dissolving alloy the process of the water molecules attach to negative choices Mich of the following can help to speed up the process of the water molecules attach to negative choices Mich of the following can help to s	Reactant	Product	
Brass is an alloy made of 85% copper and 15% tin. Which is the solute in this case?          answer choices         Brass         Tin         Alloy         which of the following can help to speed up the process of dissolving?         cleate all that apply         answer choices         Stirring/shaking         Cooling down         And the the negative ends of the water molecules attach to negative chloride ions and pull them the true to the water solution.         Increasing surface area         True       False	nis case?		Vhich is the solvent in
answer choices   Brass   Tin   Alloy      The following can help to speed up the process of dissolving? Alloy Heating up Cooling down Cooling down Heating up Cooling down Increasing surface area The water is dissolving salt, the negative ends of the water molecules attach to negative chloride ions and pull them in the time the time the time time time time time time time tim	The petrol	al Manańj.co	m/ae
answer choices Brass Tin Copper Tin Alloy Thich of the following can help to speed up the process of dissolving? Thich of the following can help to speed up the process of dissolving? Alloy Heating up Cooling down Heating up Cooling down Heating up True False Mery Mportant	Brass is an allov made of	85% copper and 15% tin. Which is the solute	in this case?
<ul> <li>Brass</li> <li>Tin</li> <li>Alloy</li> </ul> Thick of the following can help to speed up the process of dissolving? Thick of the following can help to speed up the process of dissolving? Thick of the following can help to speed up the process of dissolving? Thick of the following can help to speed up the process of dissolving? Thick of the following can help to speed up the process of dissolving? Thick of the following can help to speed up the process of dissolving? Thick of the following can help to speed up the process of dissolving? Thick of the following can help to speed up the process of dissolving? Thick of the following can help to speed up the process of dissolving? Thick of the following can help to speed up the process of dissolving? The following can help to speed up the process of dissolving? The following the following can help to speed up the process of dissolving? The following the following can help to speed up the process of dissolving? The following the process of dissolving salt, the negative ends of the water molecules attach to negative chloride ions and pull them the true to the water solution. The following the process of the pro			
elect all that apply answer choices Stirring/shaking Cooling down Increasing surface area Then water is dissolving salt, the negative ends of the water molecules attach to negative chloride ions and pull them tu into the water solution. Increasing surface area Very Important True	Brass		
elect all that apply answer choices Stirring/shaking Cooling down Increasing surface area Then water is dissolving salt, the negative ends of the water molecules attach to negative chloride ions and pull them tu into the water solution. Increasing surface area Very Important True			
Stirring/shaking   Cooling down   Heating up   Increasing surface area   Hen water is dissolving salt, the negative ends of the water molecules attach to negative chloride ions and pull them to the water solution. Increasing surface area True False		help to speed up the process of dissolving?	
Stirring/shaking Heating up   Cooling down Increasing surface area   Then water is dissolving salt, the negative ends of the water molecules attach to negative chloride ions and pull them to the water solution. Increasing surface area Very Important of False	answer choices		
Cooling down Increasing surface area Then water is dissolving salt, the negative ends of the water molecules attach to negative chloride ions and pull them answer choices True False	Stirring/shaking	MIRS. ATA US Heating up	<b>5002</b>
True			
answer choices True False Very Important			
True False	ut into the water solution.	negative ends of the water molecules attach to negative chl	
		False	Very Importa

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Il solutions have to be liquids.	
answer choices	
True	<ul> <li>False</li> </ul>
solution of metals is often called a:	
answer choices Solute	Alloy
Colloid	Solvent     Very Important
Which of the following are considered to be	e a homogeneous mixture?
answer choices	
Colloid	Solution
Suspension	All Mixtures Very Important
measure of the amount of solute in a gi	iven amount of solvent or solution is
answer choices	
saturated	solubility
concentration	Very Important
saturated solution is one that	
answer choices	
contains the maximum amount of dissolved s	solute. 🛛 🛑 contains less solute than a saturated solution.
contains more solute than a saturated solutio	on. It is the amount of a substance required to form a
	saturated solution.
supersaturated solution is one that	
supersaturated solution is one that	
	saturated solution.
answer choices	saturated solution.
answer choices contains the maximum amount of dissolve	saturated solution.
answer choices contains the maximum amount of dissolve contains more solute than a saturated solut An unsaturated solution is one that	saturated solution. red solute. Iution. is the amount of a substance required to form a saturated solution.
answer choices contains the maximum amount of dissolve contains more solute than a saturated solut An unsaturated solution is one that	saturated solution. red solute. Iution. is the amount of a substance required to form a saturated solution.

n electrolyte is		
answer choices		
The rapid, random movement of particles in colloidal dispersion.	<ul> <li>A substance that dissolves in water and conducts electric current.</li> <li>Very Impol</li> </ul>	rta
A substance that dissolves in water and does not conduct electric current.	The solution process when water is the solvent.	
nonelectrolyte is		
answer choices		
The rapid, random movement of particles in colloidal dispersion.	A substance that dissolves in water and conducts     electric current.     Very Impo	orta
A substance that dissolves in water and does not conduct electric current.	The solution process when water is the solvent.	
The dissolving medium in a solution is	called	
answer choices	تم تحميل هذا الملف	
🔵 colloid	solution	
اتبه	Very Import	tan
solute	solvent	
The substance dissolved in a solution is called .		
answer choices	Janahi.com/ae	
colloid	solution	
solute	solvent	
What does it mean to dilute a solution?		
answer choices		
lower the concentration of solute per solvent	increase the concentration of solute per solvent	
Vhat is a solvent		
answer choices Mrs. AYA	050 717 5602	
the liquid in which a solute is dissolve	ed to form a 🛛 🔴 Another word for solution	
solution.		\ <i>\</i> /@
A thing that make drinks turn colors	Its a metal molecole	

100 0 <sup>1</sup> H <sup>0</sup> O <sup>1</sup> 0 <sup>1</sup> H <sup>0</sup> O <sup>1</sup> 0 <sup>1</sup> O <sup>1</sup> O <sup>1</sup> 0 <sup>1</sup> O <sup>1</sup>	When 40 grams of NaCl is dissolved in 100 grams of described as:	
Temperature (°C)		
You can make a solution more conce	ntrated by adding	
answer choices		
solute	solvent	Very Important
water		
	موقع المناهج الإماراتية	
Solution where more solute can still be di	ssolved at the given temperature.	
answer choices     Saturated	Unsaturated	Very Importan
<ul> <li>Supersaturated</li> </ul>	Homogeneous solution	very important
Supersularitied		
Graph that shows the amount of solute that	can be dissolved in 100 g of water at a certain tempera	ature.
answer choices		
<ul> <li>Solubility curve</li> <li>Concentration curve</li> </ul>	Saturation curve     Molarity curve	
		Sel 1
Water is considered polar due to:		с. 
answer choices		
its neutral poles	<ul> <li>its charged poles</li> </ul>	
the odd number of atoms involved	<sup>d</sup> A 050 717 56	02
Define the term insoluble.		
answer choices		
🔴 Can dissolve in water.		
Cannot dissolve in water.		
Partially dissolves in water.		
49		
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т	he is the thing being dissolved.
	answer choices
	solute
	solvent
	mixture
	solution
	Which of the following statements is true?
	answer choices
	B is a saturated solution
	A is a supersaturated solution C is an unsaturated solution
	None of the above
	معقوبالمناجع الملاتينا والتنابي ومقوم
	are made up of solutes and solvents.
	answer choices
	Solutions
	Suspensions a Manahi.com/ae
	Heterogeneous Mixtures
	Pure Substances
If I di	issolve carbon dioxide in water, what is my solvent?
a	nswer choices
•	Carbon Dioxide
• т	here is no solvent
•	Dxygen
• v	
As	olution that can hold more solute is called 050 717 5602
	answer choices
•	saturated Very Important
•	supersaturated
	unsaturated
•	insoluble
	50
	• للتواصل والاستفسار <b>&gt;&gt; 3602 717 Mrs. AYA 050 717 5602</b>



	nces characterized as having a strong smell, a sour taste, and
a	
answer choices	
Acids; pH less than 7	
Acids; pH greater than 7	
Bases; pH greater than 7	
Bases; pH less than 7	
A substance is found to	have the following characteristics:
Very bitter taste	
Feels slippery to the tou	
Produces OH- ions wher	
In what category would	the substance be classified?
answer choices	
acid	موقع المناهج الإماراتيه
<b>b</b> ase	
enzyme	
fatty acid	a.Manańj.com/ae
/hen an acid is dissolve	d in water, it turns red litmus paper blue.
answer choices	
True	
False	
ases turn blue litm	
answer choices	
True	
False	

