

# حل تدريبات Solutions and Mixtures والمحاليل منهج انسابير المسار المتقدم



## تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف الخامس ← علوم ← الفصل الأول ← ملفات متنوعة ← الملف

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منهج انجليزي | ملخصات وتقارير | مذكرات وبنوك | الامتحان النهائي | للمدرس

المزيد من مادة  
علوم:

## التواصل الاجتماعي بحسب الصف الخامس



صفحة المناهج  
الإماراتية على  
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

## المزيد من الملفات بحسب الصف الخامس والمادة علوم في الفصل الأول

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## Mixtures and Solutions: Mixtures

### Select the best choice.

Why is the sweetness of the water the same throughout after we dissolve the sugar completely? Select the correct answer.

- The sugar particles gather in one place.
- The chemical properties of the sugar change.
- The sugar mixes evenly in the water.
- The chemical properties of the water change.

### Select the correct answer.

Which picture shows a mixture?



Look and check if each item is a homogeneous or a heterogeneous...

Homogeneous Mixtures	Heterogeneous Mixtures
----------------------	------------------------



vinegar



water, oil, and sand



soap in a bottle



basket of vegetables

### Select the correct choice.

Which of the following is an example of a mixture?

- water
- milk
- salt
- sugar

**Select the correct answer.**

**Which of the following is a homogeneous mixture when mixed well?**

- ☐ water + oil
- ☐ water + sugar
- ☐ vegetable salad
- ☐ fruit salad

**Select the correct choice.**

**Which of the following statements is TRUE about a homogeneous mixture?**

- ☐ it can be of any physical state
- ☐ it has different layers
- ☐ it is always a liquid
- ☐ it must have components of equal ratios

**Select the correct choice.**

**Which of the following is an example of a mixture?**

- ☐ milk
- ☐ water
- ☐ salt
- ☐ sugar

**Select the correct answer.**

**When you add talc powder to a glass of water, the powder settles at the bottom of the glass with time. Which statement is TRUE about the mixture?**

- ☐ Talc is uniformly distributed in water, so the mixture is heterogeneous.
- ☐ Talc does not dissolve in water, so the mixture is homogeneous.
- ☐ Talc and water form two layers, so the mixture is homogeneous.
- ☐ Talc does not dissolve in water, so the mixture is heterogeneous.

**Select the correct choice.**

**Which of the following statements is TRUE about air?**

- ☐ gases in air form layers
- ☐ gases in air are chemically combined
- ☐ gases in air are evenly distributed
- ☐ gases in air combine and form a new material

Select the correct choice.

**Why is the vegetable salad considered a heterogeneous mixture?**

- ☐ the different parts dissolve in each other
- ☐ the different parts are not evenly mixed
- ☐ the different parts cannot be separated
- ☐ the different parts are chemically combined

Select the correct choices.

**Brass is primarily composed of copper and zinc materials, which are evenly mixed. Which statements are TRUE about brass?**

- ☐ copper and zinc are chemically combined
- ☐ copper and zinc are physically combined
- ☐ brass particles are visible
- ☐ copper and zinc cannot be separated
- ☐ brass is a heterogeneous mixture
- ☐ brass is a homogeneous mixture

Select the correct choice.

**Which of the following is an example of a mixture?**

- ☐ sugar
- ☐ milk
- ☐ water
- ☐ salt

Select the correct choice from the drop-down menu to complete the sentence.

**A ..... is a physical combination of two or more substances.**

Select the correct choice.

**Which of the following is a characteristic of a homogeneous mixture?**

- ☐ different phases or layers
- ☐ its components are visible
- ☐ components that are physically separated
- ☐ uniform appearance throughout

Select the correct choice from the drop-down menu to complete the sentence.

A ..... is a physical combination of two or more substances.

Select the correct choice.

What will happen if salt water is mixed with sugar water in a beaker?

- ☐ sugar will settle down in the beaker
- ☐ salt will settle down in the beaker
- ☐ sugar and salt mixtures will remain separated in the beaker
- ☐ sugar and salt will be evenly distributed in the water

Select the correct choice.

Sara mixed 300 g pistachio, 350 g almonds, and 250 g cashews together.

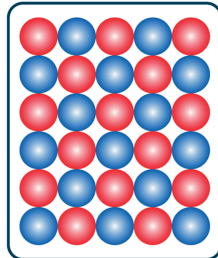
Sara found that the total mass of the mixture was 900 g. What do you conclude?

- ☐ The mass of the mixture is less than the total of its parts' masses.
- ☐ The mass of the mixture can't be known from its parts' masses.
- ☐ The mass of the mixture is the total of its parts' masses.
- ☐ The mass of the mixture is greater than the total of its parts' masses.

## Mixtures and Solutions: Solutions, Suspensions, and Colloids

Select the correct answer.

In which example are the parts of the mixture evenly mixed?



even distribution of particles

- ☐ clay and water
- ☐ sugar and water
- ☐ even distribution of particles
- ☐ oil and water

Choose the correct option from the drop-down list.



juice with pulp



clear juice



clear vinegar



yogurt

solution

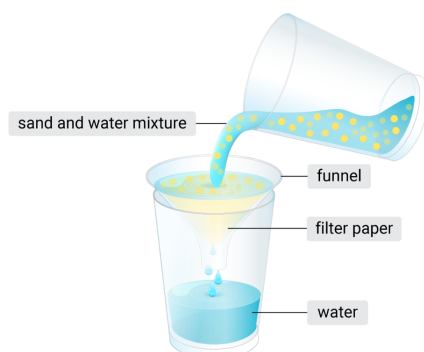
suspension

colloid

solution

Select the correct answer.

We use filter paper to separate a mixture of sand and water. Which physical property allows us to separate sand particles from water?



- ☐ magnetism
- ☐ color
- ☐ conductivity
- ☐ size of particles

Drag and drop the correct terms to complete the sentences.

Butter is considered a colloid where tiny water droplets are distributed throughout the fat. The water droplets .....

- ☐ dissolve
- ☐ suspension
- ☐ don't settle out
- ☐ settle out
- ☐ solution

Select the correct choice.

A strainer is like a small sieve that helps to separate parts of heterogeneous mixtures. For which type of the following mixtures is a strainer particularly useful?

- ☐ iron + copper
- ☐ water + sugar
- ☐ iron + salt
- ☐ • tea + herbs

Select the correct choice to complete the sentence.

..... is a homogeneous mixture.

Select the correct choice.

In what type of mixture does a component dissolve completely in another?

- ☐ colloid
- ☐ heterogeneous mixture
- ☐ suspension
- ☐ solution

Select the correct choice from the drop-down menu.

Components in a mixture can be separated according to their .....

Select the correct choice from each drop-down menu.

Sparkling waters ..... It contains carbon dioxide gas in water. ....

- ☐ solution
- ☐ dissolved

Drag and drop the correct choices to determine the type of each substance.

- ☐ colloid
- ☐ reaction
- ☐ gas
- ☐ solution
- ☐ suspension
- ☐ compound

Select the correct choice from each drop-down menu.

Decide the suitable method to separate each mixture:

- ☐ separate iron fillings from sand and salt: .....
- ☐ separate large stones from soil: .....
- ☐ separate ashes from salty water: .....



**Select the correct answers.**

**Which of the following are suspensions?**

- ☐ foam
- ☐ muddy water
- ☐ milk
- ☐ salad dressing
- ☐ salty water
- ☐ whipped cream

**Select the correct choice.**

**A strainer is like a small sieve that helps to separate tea leaves or herbs from the tea solution. On which physical property does using the strainer depend?**

- ☐ size of particles
- ☐ magnetism
- ☐ conductivity
- ☐ color

**Select the correct choice.**

**A strainer is like a small sieve that helps to separate parts of heterogeneous mixtures. For which type of the following mixtures is a strainer particularly useful?**

- ☐ tea + herbs
- ☐ iron + salt
- ☐ water + sugar
- ☐ iron + copper

**Select the correct choice.**

**Which statement is TRUE about colloids and suspensions?**

- ☐ both are types of solutions
- ☐ both are types of homogeneous mixtures
- ☐ both are types of heterogeneous mixtures
- ☐ both have particles that dissolve in the liquid

**Select the correct choices.**

**Fog usually appears in the early morning hours, where very tiny droplets of liquid water affect the visibility of air. Which statements are TRUE about fog?**

- ☐ water droplets of fog do not settle down
- ☐ fog is a solution - heterogeneous mixture
- ☐ fog is a suspension - heterogeneous mixture
- ☐ fog is a colloid - homogeneous mixture
- ☐ fog is a colloid - heterogeneous mixture
- ☐ water droplets of fog settle down

**Select the correct choice.**

**What is the difference between a colloid and a suspension?**

- ☐ the particles of a colloid do not settle out; the particles of a suspension settle out
- ☐ a colloid is a homogeneous mixture a suspension is heterogeneous mixture
- ☐ a colloid is a heterogeneous mixture a suspension is a homogeneous mixture
- ☐ the particles of a colloid settle out the particles of a suspension do not settle out

**Select the correct choice to complete the sentence.**

**A ..... is a homogeneous mixture.**

**Select the correct choice.**

**In what type of mixture does a component dissolve completely in another?**

- ☐ solution
- ☐ heterogeneous mixture
- ☐ colloid
- ☐ suspension

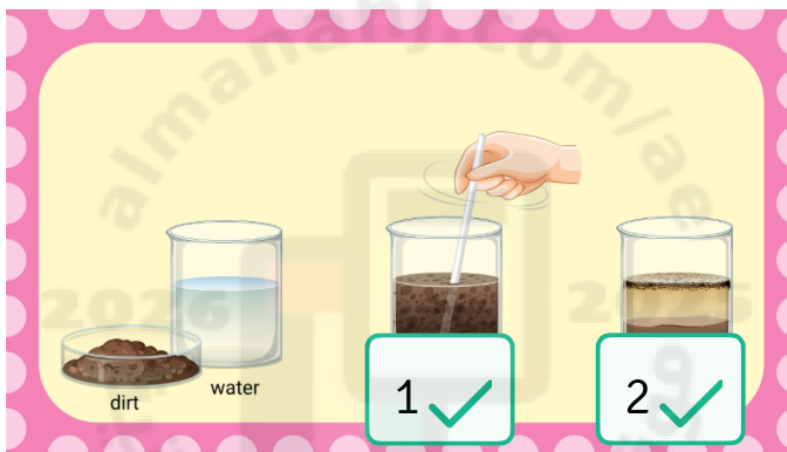
## Mixtures and Solutions – Investigate

Select the correct choices to answer the question.

Which two things should you mix to form a solution?

- ☐ candy + oil
- ☐ soda + sugar
- ☐ ice cubes + candy
- ☐ sand + oil
- ☐ water + sugar
- ☐ oil + water

Drag and drop the correct terms to label the image.



- ☐ heterogeneous mixture
- ☐ suspension

Select the correct choice.

Why is a mixture of sugar and water considered homogeneous?

- ☐ You can see the sugar particles.
- ☐ The water changes color.
- ☐ The sugar dissolves completely and is not visible.
- ☐ The sugar stays solid in the water.

Select the best choice.

Which item(s) from the list below can you mix with sand to make a heterogeneous mixture?

water	candy	soda	oil	sand
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- ☐ candy, soda, and oil
- ☐ water and soda
- ☐ water
- ☐ water, candy, soda, and oil

