

محارس البكالوريا BACCALAUREATE SCHOOLS

Name		Worksheet 4
		Grade 5
	Mix	ctures and Solutions (Lesson 4) Guided Notes
		(workbook pages 78-85)
<u>Mixtu</u>	<u>ıres.</u>	
•	Α	has different materials placed
	toget	ther, BUT each material in the mixture keeps its own properties.
	0	Example: Fruit salad- you can take each individual fruit out of
		the mixture and it still has the same property.
•		means parts.
	0	Sometimes mixtures are not as easy to separate the
		components.
<u>Solut</u>	tions:	
•	A	is a mixture in which
	subst	tances are spread out evenly and do not settle to the bottom
	of the	e container.
	0	Examples: Salt mixed with water. The salt dissolves in the
		water.



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•	A solute is the substance that is dissolved in a
	·
	o The salt is the solute in the salt water mixture.
•	One way to make a solid dissolve in a liquid faster you can
	or the solution.
	Grinding a solid into small pieces may help too.
•	Not all solutions are made by dissolving a solid in liquid. Two or more
	liquids can also make a solution
	Example: Soybean oil and sunflower oil.
•	A gas can also dissolve in a liquid.
	 Example: Water can have dissolved oxygen and carbon dioxide

Separating Solutions:

gasses.

 Since a solution is easily mixed and spread out evenly you cannot pick out chunks of one material.



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•	To separate the parts of a solution, you use
	of the substances in the solution. You have to cause a
	to one
	or more of its components.
	 Example: You can evaporate the liquid by heating it
<u>Mixtu</u>	res and Solutions:
•	ALL solutions are, but not all
	mixtures are solutions.
	o A solution is the same in all
•	You can tell the difference by observing the mixture closely.





Mixtures and Solutions Guided Notes

Mixtures.

- A **mixture** has different materials placed together, BUT each material in the mixture keeps its own properties. The parts are easily separated.
 - Example: Fruit salad- you can take each individual fruit out of the mixture and it still has the same property.
- Component means parts.
 - Sometimes mixtures are not as easy to separate the components.

Solutions.

- A solution is a mixture in which substances are spread out evenly and do not settle to the bottom of the container.
 - Examples: Salt mixed with water. The salt dissolves in the water.
- A **solute** is the substance that is dissolved in a **solution**.
 - The salt is the solute in the salt water mixture.
- One way to make a solid dissolve in a liquid faster is by stirring or heating the solution. Grinding a solid into small pieces may help too.





- Not all solutions are made by dissolving a solid in liquid. Two or more liquids can also make a solution
 - Example: soybean oil and sunflower oil.
- A gas can also dissolve in a liquid.
 - Example: Water can have dissolved oxygen and carbon dioxide gasses.

Separating Solutions:

- Since a solution is easily mixed and spread out evenly you cannot pick out chunks of one material.
- To separate the parts of a solution, you use physical properties of the substances in the solution. You have to cause a physical change to one or more of its components.
 - o Example: You can evaporate the liquid by heating it

Mixtures and Solutions:

- ALL solutions are mixtures, but not all mixtures are solutions.
- You can tell the difference by observing the mixture closely.
 - The solution is the same in all parts.