Science

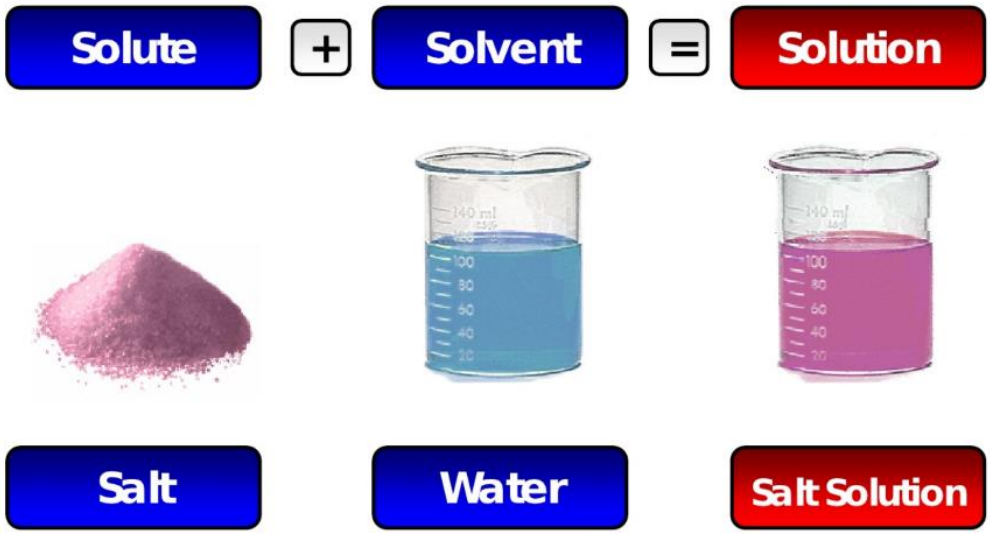
Level: Standard 2

Strand: Form and Function

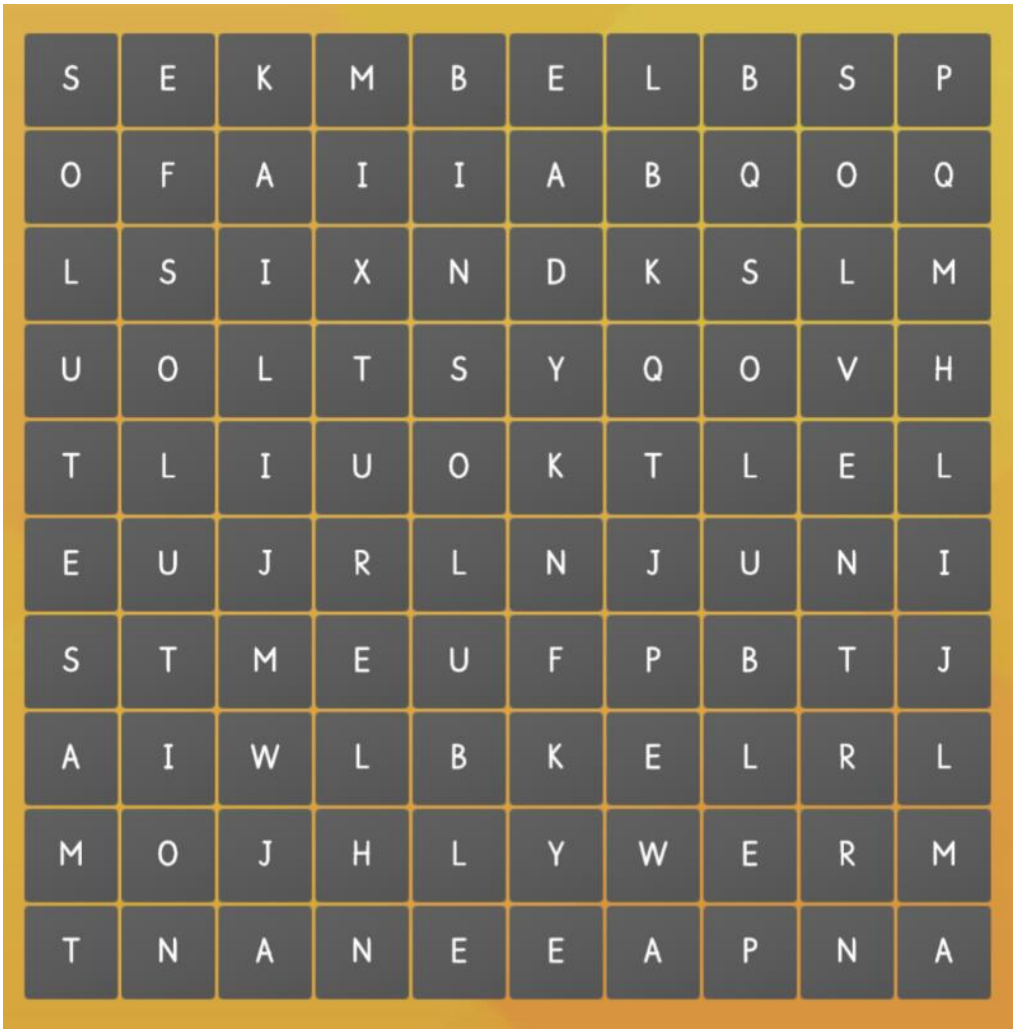
Topic: Substances that dissolve in water - Revision

Key Points:

- A **solute** is usually a substance solid that can be dissolved in another substance e.g. sugar and salt solid disappear completely leaving a clear mixture
- A **solvent** is a substance liquid that dissolves another substance e.g. water
- A **solution** is a mixture of at least one solid and a liquid and forms when a **solute** dissolve in a **solvent** e.g. salt and water



Activity 1: Search for the answers to the six (6) prompts in the wordsearch below



S	E	K	M	B	E	L	B	S	P
O	F	A	I	I	A	B	Q	O	Q
L	S	I	X	N	D	K	S	L	M
U	O	L	T	S	Y	Q	O	V	H
T	L	I	U	O	K	T	L	E	L
E	U	J	R	L	N	J	U	N	I
S	T	M	E	U	F	P	B	T	J
A	I	W	L	B	K	E	L	R	L
M	O	J	H	L	Y	W	E	R	M
T	N	A	N	E	E	A	P	N	A

1. liquid which the solid dissolves into

2. have constituents which are not combined.

3. solid that dissolves in a liquid

4. when the solute and solvent are mixed together.

5. does not dissolve in a solvent

6. dissolves in a solvent

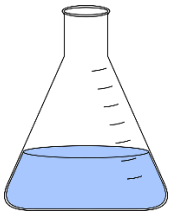
Assessment:

1. Which of the following terms describes a substance that dissolves in a solvent

   (a) solution (b) solute

   (c) suspension (d) concentration

2. A student measures 6 grams of sugar into 100 milliliters of water in a flask. Which of the following should the student do to help the sugar dissolve more quickly into the water?



   (a) add more water to the mixture

   (b) place the flask in a refrigerator

   (c) gently swirl the mixture in the flask

   (d) place a stopper in the top of the flask

3. Which statement describes a solution of salt water?

   (a) Salt if the residue, water is the filtrate

   (b) Salt is the solvent, water is the solute.

   (c) Salt is the solute, water is the solvent.

   (d) Salt is the solution, water is the solute.

4. Water is an example of a _____.

   (a) solvent

   (b) mixture

   (c) solute

   (d) chemical

5. What are the two parts that make up a solution?

   (a) solvent and solute (b) concentration and dilation

   (c) solids and liquids (d) residue and filtrate

6. If a substance does not dissolve in a solvent, it is termed:

(a) soluble (b) insoluble

(c) mixture (d) residue

7. When one substance is dissolved in another substance, a _____ is formed.

(a) solvent (b) solution

(c) solute (d) reaction

Answer key:



Assessment:

1. (b)
2. (c)
3. (c)
4. (a)
5. (a)
6. (b)
7. (b)

References:

https://wordwall.net/resource/39609/solventsolute-solutions-matchup

https://www.deviantart.com/thepow/art/Chemistry-Flasks-322657766