

Solutions Newsletter

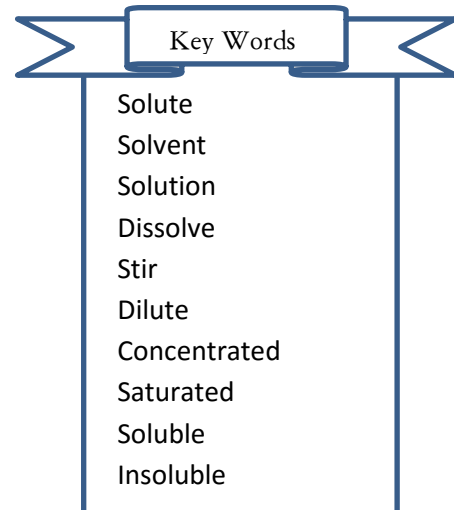
OBJECTIVES

The grade 5 English science unit, Solutions, meets the academic content standards set in the Korean curriculum, which state students should:

- Compare the weights of a solid before and after dissolving it and understand the phenomenon of dissolution through the perspective of particle theory.
- Learn that the dissolving volumes of solids differ according to the types and volumes of solute through the activities of dissolving a variety of solids in water.
- Develop new methods to compare the concentrations of solutions.
- Confirm via experiment that the temperature of water is a major factor affecting a solute's volume when dissolved.

VOCABULARY

The vocabulary used in English science is very specific and often difficult for students learning English as a third language to grasp. Some key vocabulary is listed here for parents to help their children prepare for classes. Additional vocabulary worksheets are also attached as part of the newsletter for students to complete as homework in an attempt to make the lessons accessible to all students of all abilities.



EXPLORATORY ACTIVITIES

The activities and experiments completed in class are selected from popular resources used in English speaking countries. Although they may be a little different to the exploratory activities stated in the Korean textbooks, they meet the objectives described in the Korean curriculum. The exploratory activities for this unit can be found on my website abrownTKS.weebly.com and are briefly listed below.

- Solute + Solvent; making solutions
- Lava Lamp; soluble vs insoluble
- Evenly Spread; dissolving
- Mystery Substance; solute properties
- A Race to Dissolve; stir and crush
- Fast Fizzing; dissolving with heat
- A Strong Taste; dilute vs concentrated
- It's Saturated!; saturated solutions
- Floating Golf Ball; concentrations
- Density Rainbow; concentrations