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Science Lesson Plan 2

ELD 376

11-5-13

Grade: 5th

Subject: Science

Standard: 5.1.4.A.1 Demonstrate understanding of the interrelationships among fundamental concepts in the physical, chemical, life, and Earth systems sciences.

Objective: Students will show comparisons and contrasts between mixtures and solutions using a Venn Diagram in their science notebooks.

Teaching:

Introduction:

* "Boys and girls, today we are going to be doing a great, interactive activity using our science notebooks with mixtures and solutions."
* "For the past few days we have been working on mixtures and solutions, identifying properties and even making mixtures and solutions."
* "What are examples of mixtures? Solutions? What makes these either a mixture or a solution? Turn and talk to a partner." (wait for responses, do a group share, and expand on them or correct them if necessary).
* "Wonderful! (repeat what the students said).
  + Should be along the lines of:
    - Mixtures are two or more substances that are mixed together but not chemically combined. EX- Fruit Salad
    - Solutions are substances that are mixed together where a solid dissolved completely into a liquid. EX- Sugar in water

Procedure:

* "Today we are going to be using our past knowledge to create a Venn Diagram. Can anyone tell me what a Venn Diagram is? " Wait for responses.
* "Yes, a Venn Diagram is something that compares and contracts two things. As we have talked about, mixtures and solutions have some similar characteristics but they are also very different. "
* "Now, I need you to take out your science notebooks and turn to a blank page. On this page you will draw a Venn Diagram. On one circle you will write mixtures and on the other you will write solutions. In the middle you will write similarities." (draw and label this on the board).
* "I will pass out a sheet with a list of properties or examples of either mixtures, solutions, or both. Your job is to identify whether these properties belong in the circle of just mixtures, just solutions, or in the overlapping circle of what mixtures and solutions have in common. You will need to cut out these properties or examples and paste them in the proper area of the Venn Diagram. Before you start gluing make sure to raise your hand so an adult can check your work. Any questions?" Wait for responses.
* "Okay, get started scientists!"

Assessment: Their Venn Diagram in their science notebooks and class discussion.

Resources

Gioia, Diane. "Mixtures and Solutions." . Bell's Crossing Elementary. Web. 1 Nov 2013. <http://teachers. greenville.k12.sc.us/sites/dgioia/Shared Documents/Mixtures and Solutions.pdf>.

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Properties of Mixtures and/or Solutions

Directions: Cut out each of these properties and paste them in your Venn Diagram under either "Mixtures", "Solutions" or "both".

two or more substances mixed together

substances that are chemically combined

substances are not chemically combined

can be separated

vegetable salad

sand and water

has a solvent and a solute

salt and water

sugar and water

lemonade

particles are spread evenly throughout

made up of matter

soil

bag of snacks (pretzels, chocolate, and nuts in one bag)