

203

Lesson Plan Template

Name: [REDACTED]

Course: 7th Grade Science

Grade: 7th

Unit: Properties and Changes of Matter

Big Idea: Matter is Classified by Physical & Chemical Properties & Changes .

Sub concept: Matter is Everything.

Literacy Strategy(s): Journal Write, Anticipation Guide, Word Association.

Lesson: Substances, Mixtures & Solubility

Date Taught: 5-19-09

Learning Objective(s):

- Students will be able to distinguish between substances and mixtures.
- Students will be able to describe two different types of solutions.
- Students will be able to explain how solutions form.

Idaho Standards (or National Standards if no Idaho Standards exist): 6.S.2.1.2* Define the properties of matter. (620.01.b).

6.S.2.1.1* Compare and contrast the differences among elements compounds and mixtures. (620.01.a)

Detailed Description of Lesson:

Describe the sequence of activities in the lesson. Include the instructions that students are given for activities. Remember that these lessons will be shared with other teachers. Please provide enough detail so that other teachers could replicate the lesson.

1. Have students take out a piece of paper and answer the FOLLOWING question on the board in a minimum of 3 sentences "What is the difference between a substance and a mixture". Then share responses with rest of the class. 5 to 10 minutes
2. Have students get out their white boards and markers and play word association with them. You throw out a word and they answer in 3 words or less what comes to mind. Example words: Element, Atom, Solution, etc. 10 to 15 minutes.
3. Pass out Anticipatory Guide on substances and mixtures and have students work on them individually for about 15 minutes.
4. Come together as a group and have students discuss their answers together as a class. 10 to 15 minutes.

Handouts:

Include any handouts that students were given.

Student Work:

Include samples of student work from the lesson (include and identify examples of high, medium, and low quality). *Remove student names before submitting.*

Anticipatory Guide

5/12/09

Name _____

Date _____

Directions: State whether you agree or disagree with the following statements. Then read pages 420-425 and provide the proof.

- | | |
|--|----------------|
| 1. Everything is composed of atoms.
Proof: | Agree/Disagree |
| 1. Matter can only be made into something different or new by burning it, or by a chemical reaction or it reacting to light.
Proof: | Agree/Disagree |
| 2. Water is an element.
Proof: | Agree/Disagree |
| 3. Soap scum is an example of a solid forming from a solution.
Proof: | Agree/Disagree |
| 4. Kool Aide is an example of a homogenous mixture.
Proof: | Agree/Disagree |
| 5. Pepsi is a liquid-gas solution.
Proof: | Agree/Disagree |
| 6. You can have a solution without a solute.
Proof: | Agree/Disagree |
| 7. Homogenous mixtures can be solids.
Proof: | Agree/Disagree |
| 8. All substances have chemical compositions.
Proof: | Agree/Disagree |
| 9. A substance can't be broken down.
Proof: | Agree/Disagree |
| 10. There are only two types of mixtures.
Proof: | Agree/Disagree |