

Unit 1: Classroom Chemistry

Name: _____

Date: _____

Assignment 1-1 Solutions and Mixtures Resource

What are the Properties of Mixtures?

Instructions

1. Your task is to construct a resource that the students can use to review the characteristics of solutions and mixtures.

You will construct a PowerPoint presentation that will answer the question, “[What are the properties of mixtures?](#)”

Before beginning your review resource, what information do you think is important to include in your resource? What does the audience (students) need to know about the properties of mixtures?

Use this information to help plan your PowerPoint presentation:

Your information resource should include these criteria:

- a title slide with a title for your PowerPoint and your name
- 1 slide *What is a mixture?*
- 1 slide explaining the properties of water and why it is used in mixtures
- 1 or 2 slides for each of the three types of mixtures (Each slide should include a description of the type of mixture as well as examples.)
 - Two or more solids
 - A solid and a liquid
 - Two or more liquids
- 1 or 2 slides explaining the difference between homogeneous and heterogeneous mixtures, including examples
- 2 or 3 slides that explain how mixtures can be separated (Include methods for separating homogeneous and heterogeneous mixtures.)
- on each slide, pictures to match your written description
- in at least two locations, a link to a video demonstrating an experiment or a concept
- neat, organized and colourful PowerPoint
- You may refer to resources used in this section to help you construct a well-informed

Chemistry Rubric

Criteria	Excellent 5	Proficient 4	Satisfactory 3	Limited 2
I can explain the properties of water. /5	<ul style="list-style-type: none">I provided a <i>comprehensive</i> and <i>detailed</i> explanation of the properties of water.	<ul style="list-style-type: none">I provided a <i>logical</i> and <i>thoughtful</i> explanation of the properties of water.	<ul style="list-style-type: none">I provided a <i>basic</i> and <i>general</i> explanation of the properties of water.	<ul style="list-style-type: none">I provided an <i>inaccurate</i> or <i>incomplete</i> explanation of the properties of water.
I can explain how mixtures can be identified. /5	<ul style="list-style-type: none">I developed <i>insightful</i> and <i>detailed</i> explanations of how mixtures can be identified based on their states and appearance.I used <i>precise</i> details.	<ul style="list-style-type: none">I developed <i>thoughtful</i> and <i>reasonable</i> explanations of how mixtures can be identified based on their states and appearance.I used <i>logical</i> details.	<ul style="list-style-type: none">I developed <i>appropriate</i> and <i>basic</i> explanations of the properties of how mixtures can be identified based on their states and appearance.I used <i>general</i> details.	<ul style="list-style-type: none">I developed an <i>inaccurate</i> and/or <i>incomplete</i> explanations of how mixtures can be identified based on their states and appearance.I used <i>vague</i> details.
I can explain how mixtures can be separated. /5	<ul style="list-style-type: none">I provided a <i>comprehensive</i> and <i>detailed</i> explanation of how mixtures can be separated.	<ul style="list-style-type: none">I provided a <i>logical</i> and <i>thoughtful</i> explanation of how mixtures can be separated.	<ul style="list-style-type: none">I provided a <i>basic</i> and <i>general</i> explanation of how mixtures can be separated.	<ul style="list-style-type: none">I provided an <i>inaccurate</i> or <i>incomplete</i> explanation of how mixtures can be separated.
Presentation /5	<ul style="list-style-type: none">I communicated <i>effectively</i> and <i>accurately</i>.	<ul style="list-style-type: none">I communicated <i>thoughtfully</i> with <i>few</i> errors.	<ul style="list-style-type: none">I communicated <i>clearly</i> with <i>some</i> errors.	<ul style="list-style-type: none">I communicated <i>ineffectively</i> with <i>many</i> errors.
Insufficient	Your attempt to respond is <i>insufficient</i> . Contact your teacher to discuss suggestions for improvement.			
Total: /20				
Assessment	Areas of Strength:			
	Target for Improvement:			



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