

Grade 7 Science – **Solutions Demonstration**

Name: _____ Class: _____ Date: _____

Anything that is not a pure substance is a _____.

These can be easily seen as a mixture if it has more than one type of material in it. If you can see that it is not the same. In this case, it is a heterogeneous mixture. This is known as a _____.

If a mixture looks all the same since one thing is dissolved in the other substance, this is known as a homogeneous mixture or a _____.

Creating Mixtures – Part 1

Describe what you see in the cups:

Cup A

Cup B

After they were combined, what did you observe:

Could they be separated? Explain.

What is this called?

Creating Mixtures – Part 2

Describe what you see in the cups:

Cup C

Cup D

After they were combined, what did you observe:

Could they be separated? Explain.

What is this called?

The substance that is the smaller part of the solution is the one that dissolves and is called the _____.

The substance that is the larger portion of the solution is the one that does the dissolving and is called the _____.

Salt water can be separated by _____ or the water can be captured by a distillation process.

The amount of solute determines how much the properties of the _____ change.

The amount of solute in the solvent is a measure of the _____ of the solution.

When there is only a little solute in the solvent, we call the solution _____ and when there is a lot, we call the solution _____.

When the solution has as much of the solute that it can dissolve, we call the solution _____.

There is a given amount of solute that can dissolve in a given solution at a given temperature and pressure. This is known as the _____.

In special circumstances, when a substance has more solute in the solution, the solution is known as _____. The solute then comes out of solution through _____ growth.

When a substance does not dissolve in a solvent, we call this _____.

In making Maple syrup

- This sweet product is a solution.
- The solvent is _____
- The solute is _____
- Initially, when tapped, it is _____
- When much of the water is boiled off ($1/40$), the maple sugar is _____ and becomes sweeter.
- If all the water is carefully boiled off you get _____

