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Balancing Act

Name _____

Atoms are not _____ or _____ during a chemical reaction. Scientists know that there must be the _____ number of atoms on each _____ of the _____. To balance the chemical equation, you must add _____ in front of the chemical formulas in the equation. You cannot _____ or _____ subscripts!

1) Determine number of atoms for each element.

2) Pick an element that is not equal on both sides of the equation.

3) Add a coefficient in front of the formula with that element and adjust your counts.

4) Continue adding coefficients to get the same number of atoms of each element on each side.

Mg

+

O₂

→

MgO

Mg =

Mg =

O =

O =

Try these:

Ca

+

O₂

→

CaO

Ca =

Ca =

O =

O =

N₂

+

H₂

→

NH₃

N =

N =

H =

H =

Cu₂O

+

C

→

Cu

+

CO₂

Cu =

Cu =

O =

O =

C =

C =

H₂O₂

→

H₂O

+

O₂

H =

H =

O =

O =

T. Trimpe 2006 <http://sciencepot.net/>

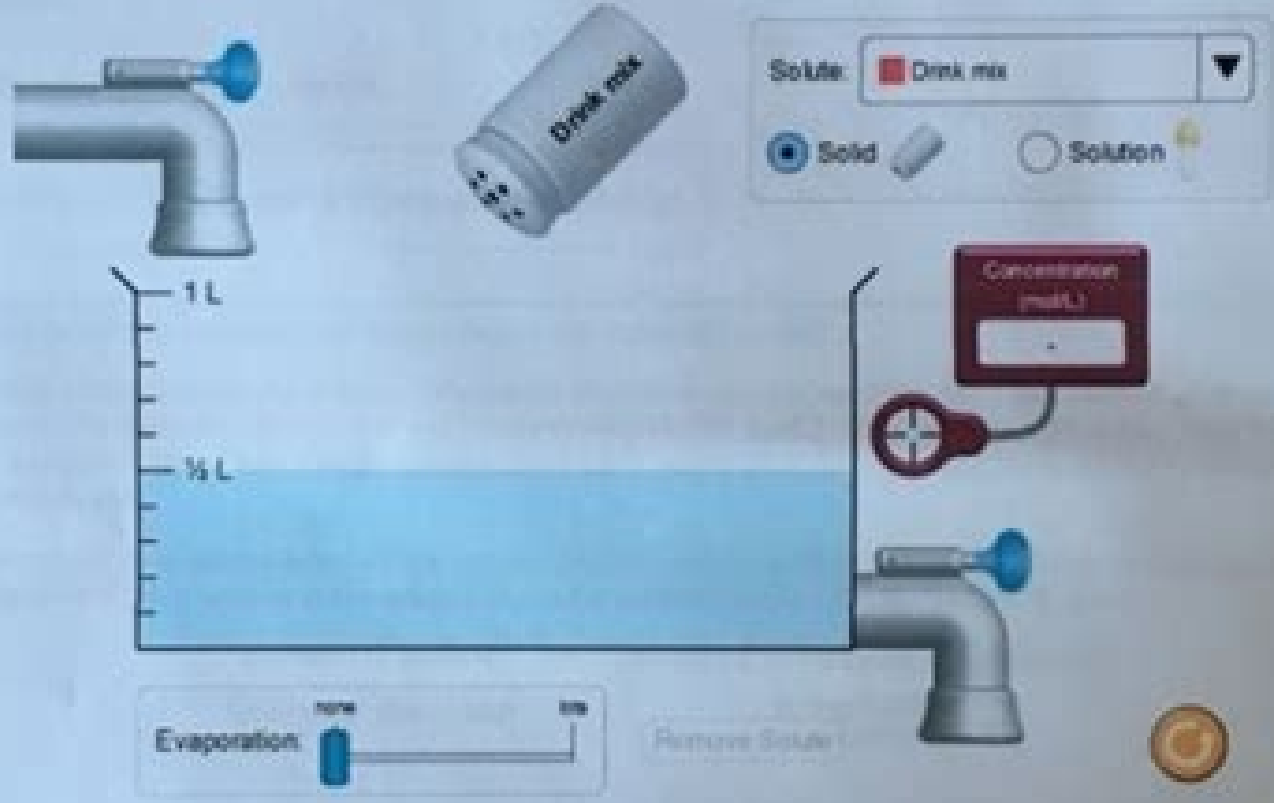
± PhET Simulation - Concentration

Solutions consist of a solute dissolved into a solvent, e.g., a salt dissolved in water. There is often a need to quantify how much solute is present per unit solution volume. Concentration is most commonly expressed in terms of molarity (as molar or M), which is the number of moles (mol) per liter (L) of solution. A one molar solution can be expressed as follows:

1 M = $\frac{1 \text{ mol}}{1 \text{ L}}$ or 1 $\frac{\text{mol}}{\text{L}}$

Every solute is limited in how much of can be dissolved into solution at a given temperature and pressure. These limitations exist because of the nature of dissolution, which involves the interaction between solute and solvent molecules. The point at which no more solute can be dissolved into solution is called the "saturation point", and the concentration at which it occurs is considered the compound's solubility. If too much solute is added to a solution, the concentration must be diluted by adding more solvent, or the saturation point must be raised by appropriately adjusting the temperature and sometimes the pH. A solution can be considered "dilute" when the concentration is less than half of the saturation point for the conditions, but dilute is a qualitative description that has no fixed definition.

Click on the image below to explore this [simulation](#), which shows how concentration is affected by various processes. When you click the simulation link, you may be asked whether to run, open, or save the file. Choose to run or open it.



When the simulation is opened, you will see a container filled to $\frac{1}{2}$ L with water. You can select a solute using the Solute dropdown menu, and add it as a solid or concentration solution (using the respective radio buttons). The Concentration meter can be dragged (both the display and the sensor) to anywhere in the simulation, but the sensor must be submerged in the mixture to read the concentration. You can also add water and remove the mixture using the respective taps and evaporate the mixture using the **Evaporation** scale bar.

Part A

Use the PhET simulation to identify what happens to the concentrations of a dilute **Drink mix** mixture or a pure **Drink mix** solution for the following scenarios. A pure **Drink mix** solution can be obtained by draining all the mixture, then adding **Drink mix** to the container as a **Solution** (radio button in the upper right area of the simulation). Note that the **Concentration** meter can be placed toward the bottom of the container or in the stream of the **Drink mix**.

Introduction to Chemistry: A Molecular Approach, 1st Edition
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References

[illegible]

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100

I understand it helped researchers find the 18-month-old boy, James Charles and his wife. He had not spoken a word until I did, including a few words, telling the man a word could be changed, for what mattered to him.

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Do not overstretch. You'll find that breathing expands the upper torso and encourages the spine to change its postural relationship along with you. If the upper limbs are not able to maintain the spine in its upright position, the lower limbs compensate by flexing at the knees to lift the body and prevent the spine from falling. The two feet together determine the base of the pelvis and the position. Take some time and play with the knees. Move on the floor, lift them, and spread apart.

- 1.1** *There is no good reason for the loss of the transmission of the*

If springs are sold for their own right to structure or facilitate selling, the differences between the springs and springs made under their own name.

29. From each following set, **circle** the outlier.

[illegible]

11. *Journal of the American Medical Association*, 277, 1996, 1277-1281.

PhET Collision Lab

Directions: Go to the website <http://phet.colorado.edu/en/simulation/collision-lab>

Make sure the 1-d box is checked.

Part II

Scenario #1:

Elastic collision between balls of equal mass

- Make a hypothesis about initial and final momentums *before* playing with the sim.
- Make a data table for the following: mass, velocity and momentum of each ball before and after.
- What is the relationship between the initial and final *total* momentums?
- Describe the motion of the balls before and after the collision?

Scenario #2:

Elastic collision between balls of unequal mass

- Make a hypothesis about initial and final momentums *before* playing with the sim.
- Make a data table for the following: mass, velocity and momentum of each ball before and after.
- What is the relationship between the initial and final *total* momentums?
- Describe the motion of the balls before and after the collision?

Part 2

Create 3 more distinct scenarios in 1-d including one totally *inelastic* collision. Make a hypothesis whether or not each will follow conservation of momentum. Collect some data and prove or disprove your hypothesis.

Summary: Describe the main ideas learned in this activity regarding initial and final total momentum in 1-d collisions.

Circuit simulation lab answer key.

[illegible]

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