

## Concentration and Molarity PhET Labs

Name: \_\_\_\_\_

**Procedure:** [https://phet.colorado.edu/sims/html/concentration/latest/concentration\\_en.html](https://phet.colorado.edu/sims/html/concentration/latest/concentration_en.html)

### Part 1: Dissolution and Saturation

Take some time to play and familiarize yourself with the simulation. Click on everything. Move all the sliders. Notice what happens to the concentration as solid solute is added and when evaporation occurs.



Concentration

Concentration  
(mol/L)  
0.179

- How does the concentration change as solid solute is added? concentration increases
  - How does the concentration change as additional water is added? concentration decreases
  - How does the concentration change as evaporation occurs? concentration increases
  - How do you know when a solution is saturated? concentration does not change (it also shows on screen)
  - When a solution is saturated, and additional solid solute is added, what happens? solid does not dissolve and settles at bottom
  - Why do you think this is? solvent can't hold any more solute
  - How does adding this additional solute change the concentration of this saturated solution? decreases concentration
  - How does evaporation change the concentration of a saturated solution? no change- solution is already saturated
- Part 2: Concentrated Solutions (same website as part 1 just click on the Solution option)**
10. Adding a concentrated solution ... describe a way to determine the concentration of the solution in the spigot. Write your plan here: empty the container and add only one solution from the dropper and then use the sensor to measure concentration

Solution



- Using your plan ... how might you get that concentrated solution to become saturated? you can evaporate
- Does your plan work for all the other solutions too? yes Why? / Why Not? evaporation reduces the amount of water (or solute) so concentration increases



### Part 3: Molarity [https://phet.colorado.edu/sims/html/molarity/latest/molarity\\_en.html](https://phet.colorado.edu/sims/html/molarity/latest/molarity_en.html)

Molarity (M) =  $\frac{\text{moles of solute (mol)}}{\text{volume of solution (L)}}$

Molarity is moles per liter, that is, how many moles of solute (entire salt) is dissolved per liter of solution.

First, determine the saturation concentration of each of the solutions, that is, how concentrated can you get each solution before the solution is saturated. If you can't determine the concentration using the simulation "Molarity", try using the simulation "Concentration" (You will use this information again in Part 5, if your instructor requires it)



Molarity

Cobalt (II) nitrate	5.640 M	Potassium chromate	3.350 M
Cobalt chloride	4.330 M	Nickel (II) chloride	5.210 M
Potassium dichromate	0.510 M	Copper sulfate	1.380 M
Gold (III) chloride	2.30 M	Potassium permanganate	0.480 M

# Concentration And Molarity Phet Lab Key

**Vu, Phu, Fredrickson, Scott, Moore, Carl**

## **Concentration And Molarity Phet Lab Key:**

**Learning and Performance Assessment: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2019-10-11 As teaching strategies continue to change and evolve and technology use in classrooms continues to increase it is imperative that their impact on student learning is monitored and assessed New practices are being developed to enhance students participation especially in their own assessment be it through peer review reflective assessment the introduction of new technologies or other novel solutions Educators must remain up to date on the latest methods of evaluation and performance measurement techniques to ensure that their students excel Learning and Performance Assessment Concepts Methodologies Tools and Applications is a vital reference source that examines emerging perspectives on the theoretical and practical aspects of learning and performance based assessment techniques and applications within educational settings Highlighting a range of topics such as learning outcomes assessment design and peer assessment this multi volume book is ideally designed for educators administrative officials principals deans instructional designers school boards academicians researchers and education students seeking coverage on an educator s role in evaluation design and analyses of evaluation methods and outcomes **Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education** Vu, Phu, Fredrickson, Scott, Moore, Carl, 2016-12-28 The integration of technology has become an integral part of the educational environment By developing new methods of online learning students can be further aided in reaching goals and effectively solving problems The Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education is an authoritative reference source for the latest scholarly research on the implementation of instructional strategies tools and innovations in online learning environments Featuring extensive coverage across a range of relevant perspectives and topics such as social constructivism collaborative learning and projects and virtual worlds this publication is ideally designed for academicians practitioners and researchers seeking current research on best methods to effectively incorporate technology into the learning environment

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