	ATIONS				C Unive Boul	ersity of Colorado der
All CLICK! Setting up: Th affect the cond Move the cond Direction to see	I) nirate Cobalt chloride Pota ride Copper sulfate Potassiu e boxes in the pic centration and or centration sensor <b>ons</b> : Add a couple how the moving p	News More  Searce News More  Searce S	chromate Nickel (II) seces that move and on (circle, arrow) nix to the water the ect the Concentrati	Evaporation:	uple minutes lution.	(mol/L)
Part 1: Click		Water is added	a few shakes of dr		is drained	Remove Solute Solute is removed
What happens to concentration? Part 2: Click as much as you ca	replace	• then char	nge drink mix	Solute: Potas	ssium permanganate	▼ to: and add
<ul><li>Why do you think</li><li>How does adding</li></ul>	s <b>saturated</b> , and a this is? this additional so	additional solid sol	ute is added, what oncentration of this saturated solution Solute: Potessium dichr Solute: Solid Solute: Sol	s saturated s		
			ion inside the drop			K2Cr207
How might you ge     Drink mix     Cobait (ii) nitrate     Cobait chloride     Potassium dichromate     Potassium chromate     Nickel (ii) chloride     Copper sulfate     Potassium permanganate	<ul><li>Does it wo</li><li>Do you this</li></ul>	ork? nk it would work t	for other solutions	? Yes or No		
https://phet.color			l of the solutions th <u>(latest/concentrations)</u>			AA31 Labs



Name\_ Period\_ Date

## Post-lab Questions:

- 1. Based on your observations using this simulation, what would your definition of "saturated" be?
- 2. Based on your observations using this simulation, what would your definition of "solute" be?
- 3. Based on your observations using this simulation, what would your definition of "evaporation" be?
- 4. Based on your observations using this simulation, what would your definition of "concentrated" be?
- 5. Adding pure water to a saturated solution (with no solids) would cause the concentration of that solution to *increase / decrease / remain the same*. (circle)
- 6. Adding pure water to a saturated solution (with some solids) would cause the concentration of that solution to initially *increase / decrease / remain the same*. (circle)
- 7. Adding a solid salt to a saturated solution causes the concentration of that solution to *increase / decrease / remain the same*.
- 8. Evaporation acting on an unsaturated solution causes the solution's concentration to *increase / decrease / remain the same*.
- 9. Evaporation acting on a saturated solution causes the solution's concentration to *increase / decrease / remain the same*.
- 10. Why do you think the concentrations of the concentrated solutions were NOT all the same?
- 11. Based on your experience with this simulation, what do you think your teacher wanted you to learn?

