



<u>Curriculum Standards/Learning Outcomes</u>	<u>Teaching Strategies</u>	<u>Resources</u>
<p data-bbox="178 313 758 349"><u>Topic Two: Mixtures and Solutions</u></p> <p data-bbox="178 381 758 417">Separating Mixtures:</p> <ul data-bbox="231 449 758 816" style="list-style-type: none">• A mixture combines two or more materials that retain their own properties.• A solution forms when a material dissolves in a liquid (solvent) and cannot be retrieved with a filter.• Evaporation can separate a liquid from a solid in a solution.• The solid material separated by evaporation from a solution forms distinctive patterns. <p data-bbox="178 849 758 885">Reaching Saturation:</p> <ul data-bbox="231 917 758 1349" style="list-style-type: none">• Solubility is the property that substances have of dissolving in solvents. Solubility is different for different materials and can change with temperature and different solvents.• A solution is saturated when as much solid material as possible has dissolved in the liquid.• When equal volumes of two solutions made from the same ingredients are compared, the heavier one is the more concentrated solution.	<ul data-bbox="819 449 1339 1284" style="list-style-type: none">• Measure solids and liquids to make mixtures and solutions.• Observe the behavior of solid materials in water.• Compare the weight of a mixture to the weight of its parts.• Organize observations on a student sheet.• Communicate observations. <ul data-bbox="819 917 1339 1284" style="list-style-type: none">• Observe the behavior of a saturated solution.• Compare the quantities of two solid materials required to saturate a volume of water.• Relate the added weight of the solution to the dissolved material in the saturated solution.• Compare the solubility of materials in water.• Communicate observations.	<ul data-bbox="1400 449 1915 514" style="list-style-type: none">• FOSS Kit: Mixtures and Solutions• Library books: (see list)

