

Science Grade 7 Physical Science: Mixtures and Solutions (MS)				
Outcome	1 - Beginning	2 – Approaching	3 – Meeting	4- Exemplary
	The student is having difficulty demonstrating an understanding of the concept.	The student is developing an understanding of the concept.	The student consistently demonstrates an understanding of the concept or has achieved the concept.	The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.
<b>MS7.1</b> <b>Distinguish between pure substances and mixtures (mechanical mixtures and solutions) using the particle model of matter.</b>	<ul style="list-style-type: none"> <li>● <b>With help</b>, I can list the characteristics of a pure substance and a mixture (mechanical mixtures and solutions).</li> <li>● <b>With help</b>, I can state the 4 main ideas of the particle model of matter</li> </ul>	<ul style="list-style-type: none"> <li>● I can <b>list the characteristics</b> of a pure substance and a mixture (mechanical mixtures and solutions).</li> <li>● I can <b>explain the 4 main elements</b> of the particle model of matter.</li> </ul>	<ul style="list-style-type: none"> <li>● I can <b>compare</b> a pure substance and a mixture, using their characteristics and examples.</li> <li>● I can <b>use the particle model of matter</b> to distinguish between pure substances and mixtures.</li> </ul>	<ul style="list-style-type: none"> <li>● I can <b>classify</b> a substance I have analyzed before as a pure substance or a mixture, and explain my reasoning.</li> <li>● I can <b>develop an experiment</b> to compare pure substances and mixtures using the particle model of matter.</li> </ul>
Comments				

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<b>MS7.2</b> Investigate methods of separating the components of mechanical mixtures and solutions, and analyze the impact of industrial and agricultural applications of those methods.	<b>Methods of separation</b>	<ul style="list-style-type: none"> <li>With help, I can <b>carry out simple processes to describe a few methods used to separate mechanical mixtures and solutions</b> including mechanical sorting, filtration, evaporation, distillation, magnetism, <b>OR</b> chromatography.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>carry out simple processes with some accuracy to describe a few methods used to separate mechanical mixtures and solutions</b> including mechanical sorting, filtration, evaporation, distillation, magnetism, <b>OR</b> chromatography.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>carry out processes accurately to describe several methods used to separate mechanical mixtures and solutions</b> including mechanical sorting, filtration, evaporation, distillation, magnetism, <b>AND</b> chromatography.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>design and carry out an accurate investigation to describe several methods used to separate mechanical mixtures and solutions</b> including mechanical sorting, filtration, evaporation, distillation, magnetism, <b>AND</b> chromatography.</li> </ul>
	<b>Impact of applications</b>	<ul style="list-style-type: none"> <li>With help, I can explain a <b>few</b> industrial <b>OR</b> agricultural applications of methods of separating the components of mechanical mixtures and solutions.</li> </ul>	<ul style="list-style-type: none"> <li>I can explain a <b>few</b> industrial <b>OR</b> agricultural applications of methods of separating the components of mechanical mixtures and solutions.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>report on the strengths and limitations of several</b> industrial <b>AND</b> agricultural applications of methods of separating the components of mechanical mixtures and solutions, <b>with examples and details.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>recommend</b> methods of separating the components of mechanical mixtures and solutions for industrial <b>AND</b> agricultural applications, <b>with support.</b></li> </ul>
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<b>MS7.3</b> Investigate the properties and applications of solutions, including solubility and concentration.	Properties	<ul style="list-style-type: none"> <li>I can <b>carry out simple processes</b> to list the properties of solutions, including solubility <b>OR</b> concentration.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>carry out simple processes with some accuracy</b> to list the properties of solutions, including solubility <b>OR</b> concentration.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>carry out processes accurately</b> to describe the properties of solutions, including solubility <b>AND</b> concentration.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>design and carry out an accurate investigation</b> to describe the properties of solutions, including solubility <b>AND</b> concentration.</li> </ul>
	Applications	<ul style="list-style-type: none"> <li>I can <b>carry out simple processes</b> to list applications of solutions.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>carry out simple processes with some accuracy</b> to list applications of solutions.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>carry out processes accurately</b> to explain the applications of solutions, with examples.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>design and carry out an accurate investigation</b> to compare the applications of solutions or determine which application is most effective in a specific situation.</li> </ul>
Comments					