



Science Grade 7 Physical Science: Mixtures and Solutions (MS)				
Outcome	1 – Little Evidence With help, I understand parts of the simpler ideas and do a few of the simpler skills.	2 – Partial Evidence I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	3 – Sufficient Evidence I understand the more complex ideas and can master the complex skills that are taught in class. I achieve the outcome.	4- Extensive Evidence I have a deep understanding of the complex ideas, and I can use the skills I have learned in situations that were not taught in class.
<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</b> to <b>describe a few methods</b> used to <b>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</b> to <b>describe a few methods</b> used to <b>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</b> to <b>describe several methods</b> used to <b>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</b> to <b>describe several methods</b> used to <b>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 <b>a 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 <b>a 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</b> of <b>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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MS7.3 Investigate the properties and applications of solutions, including solubility and concentration.	Properties	• I can carry out simple processes to list the properties of solutions, including solubility OR concentration.	• I can carry out simple processes with some accuracy to list the properties of solutions, including solubility OR concentration.	• I can carry out processes accurately to describe the properties of solutions, including solubility AND concentration.	• I can design and carry out an accurate investigation to describe the properties of solutions, including solubility AND concentration.
	Applications	• I can carry out simple processes to list applications of solutions.	• I can carry out simple processes with some accuracy to list applications of solutions.	• I can carry out processes accurately to explain the applications of solutions, with examples.	• I can design and carry out an accurate investigation to compare the applications of solutions or determine which application is most effective in a specific situation.
Comments					