Content Area: Science

Strand: Properties and Principles of Matter and Energy	Missouri GLE:
Reporting Topic: Properties of Objects and Mixtures	8.1.B
Grade: 4	

Score 4.0	In addition to Score 3.0, in-depth inferences or applications that go beyond what was taught. For example, the student may:
	Create a generalization or rule to differentiate between mixtures and solutions.
	 Demonstrate understanding of appropriate applications of measurement tools. Take a position on whether or not technology is more harmful or helpful.
	3.5 In addition to 3.0 performance, in-depth inferences and applications with partial success.
Score 3.0	The student will:
	 Describe how mixtures and solutions are used or made (e.g. by combining solids, or liquids, or a combination of these, identifying water as a solvent). Distinguish between the components in a mixture and a solution and explain ways to separate the components by their properties (e.g. sorting, filtration, magnets, screening).
	• Select the appropriate tool to measure mass to the nearest gram and choose the appropriate tool to measure volume.
	• Identify and classify materials and objects into "like" substances based on specific physical properties.
	Describe how new technologies have helped scientists make better observations and measurements for investigations (telescopes, magnifiers, balances, microscopes).
	The student exhibits no major errors or gaps in the learning goal (complex ideas and processes).
	2.5 No major errors or gaps in 2.0 content and partial knowledge of 3.0 content.
Score 2.0	The student will:
	 Recognize and recall how mixtures are made by combining solids and show how water is a solvent when combining materials.
	Recognize that materials can be separated by their properties
	 Recognize and recall specific terminology: solvent, solute, solution Identify the given material by using their characteristic properties.
	 Identify the given material by using their characteristic properties. Identify the new technologies that have helped scientists make better
	observations and measurements for investigations.
	The student exhibits no major errors or gaps in the simpler details and processes.
	1.5 Partial understanding of the 2.0 content with major errors or gaps in 3.0 content.
Score 1.0	With help, a partial understanding of the 2.0 content and some of the 3.0 content.
	0.5 With help, a partial understand of the 2.0 content and none of the 3.0 content.
Score 0.0	Even with help, no understanding or skill demonstrated.
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