

Movement of Science TEKS: Matter & Energy

3

Knowledge Statement	Student Expectations			
3.5 The student knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used.	3.5A Measure, test, and record physical properties of matter, including temperature, mass, magnetism, and the ability to sink or float. (3.7A)	3.5B Describe and classify samples of matter as solids, liquids, and gases and demonstrate that solids have a definite shape and that liquids and gases take the shape of their container. (3.7B)	3.5C Predict, observe, and record changes in the state of matter caused by heating or cooling. (3.7B)	3.5D Explore and recognize that a mixture is created when two materials are combined such as gravel and sand and metal and plastic paper clips.

4

Knowledge Statement	Student Expectations			
4.5 The student knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used.	4.5A Measure, compare, and contrast physical properties of matter, including size, mass, volume, states (solid, liquid, gas), temperature, magnetism, and the ability to sink or float. (4.7B)	4.5B Predict the changes caused by heating and cooling such as ice becoming liquid water and condensation forming on the outside of a glass of ice water. (4.7A)	4.5C Compare and contrast a variety of mixtures and solutions such as rocks in sand, sand in water, or sugar in water. (5.7B)	5

5

Knowledge Statement	Student Expectations			
5.5 The student knows that matter has measurable physical properties and those properties determine how matter is classified, changed, and used.	5.5A Classify matter based on physical properties, including mass, magnetism, physical state (solid, liquid, and gas), relative density (sinking and floating), solubility in water, and the ability to conduct or insulate thermal energy or electric energy. (5.7A, 6.8A)	5.5B Identify the boiling and freezing/melting points of water on the Celsius scale. (5.7D)	5.5C Demonstrate that some mixtures maintain physical properties of their ingredients such as iron filings and sand. (5.7B)	5.5D Identify changes that can occur in the physical properties of the ingredients of solutions such as dissolving salt in water or adding lemon juice to water. (5.7C)

Student Expectation remaining in that grade level
 Student Expectation remaining in that grade level with a New Perspective (will need new teaching method)
 Student Expectation new to that grade level
 # Previous Grade Listing
 ↓ Direction of Movement