5th Grade Unit 1: Structure and Properties of Matter:

Duration: 4-8 weeks

Performa

5-PS1-1 D matter is n seen.

3-5 ETS1reflecting specified on materia

5-PS1-2 N provide ev change that mixing su is conserve

3-5 ETS1 possible so well each constraints

5-PS1-3 M measurem their prope

3-5 ETS1-

Desired Results				
ance Expectations:	Trai	Transfer		
Develop a model to describe that made of particles too small to be	Meaning ENDURING UNDERSTANDINGS: Crosscu Students will understand that Natural objects exist from the very small	tting Concepts Il to the immensely large.		
-1 Define a simple design problem a need or a want that includes criteria for success and constraints als, time, or cost.	 Cause and effect relationships are routinely identified and used to explain change. Standard units are used to measure and describe physical quantities such as weight, time, temperature, and volume. Standard units are used to measure and describe physical quantities such as weight, time, temperature, and volume. 			
Measure and graph quantities to vidence that regardless of the type of	Meaning			
at occurs when heating, cooling, or ibstances, the total weight of matter yed.	Acquisition Disciplinary Core Ideas Students will know	Science and Engineering Practices Students will be skilled at 1. Measure and graph quantities such as		
-2 Generate and compare multiple solutions to a problem based on how is likely to meet the criteria and ts of the problem.	• PS1-A Matter of any type can be subdivided into particles that are too small to see, but even then the matter still exists and can be detected by other means. A model showing that	weight to address scientific and engineering questions and problems.2. Use models to describe phenomena.3. Make observations and measurements to produce data to serve as the basis		
Make observations and nents to identify materials based on perties.	gases are made from matter particles that are too small to see and are moving freely around in space can explain many observations, including	for evidence for an explanation of a phenomenon.4. Conduct an investigation collaboratively to produce data to		
-3 Plan and carry out fair tests in	the inflation and shape of a balloon and the effects of air on larger	serve as the basis for evidence, using fair tests in which variables are		

 which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved. 5-PS1-4 Conduct an investigation to determine whether the mixing of two or more substances results in a new substance. 	 particles or objects. The amount (weight) of matter is conserved when it changes form, even in transitions in which it seems to vanish. No matter what reaction or change in properties occurs, the total weight of the substances does not change. (Boundary: Mass and weight are not distinguished at this grade level.) Measurements of a variety of properties can be used to identify materials. (Boundary: At this grade level, mass and weight are not distinguished, and no attempt is made to define the unseen particles or explain the atomic-scale mechanism of evaporation and condensation.) When two or more different substances are mixed, a new substance with different properties may be formed. 	controlled and the number of trials considered.
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Evidence				
Evaluation Criteria	Assessment Evidence			
	PERFORMANCE TASK(S): McMillan McGraw-Hill Science, Gizmos, Mobymax			
	OTHER EVIDENCE: Unit assessment			
Learning Plan				
Summary of Key Learning Events and Instruction				