2-PS1 Matter and its Interactions

2-PS1	Matter and its Interactions		
Students w 2-PS1-1	 who demonstrate understanding can: Plan and conduct an investigation to properties. [Clarification Statement: Observati different materials share.] Analyze data obtained from testing 	o describe and classify different kinds of materials of classify different kinds of materials to determine which materials to determine which materials	s could include the similar properties that rials have the properties that are
2-PS1-3	absorbency.] [Assessment Boundary: Assessment of	* [Clarification Statement: Examples of properties could includ f quantitative measurements is limited to length.] evidence-based account of how an object ma	
2-DS1-4	small objects.]	object. [Clarification Statement: Examples of pieces could inc	
	cannot. [Clarification Statement: Examples of re irreversible changes could include cooking an egg, fr	eversible changes could include materials such as water and butte eezing a plant leaf, and heating paper.]	er at different temperatures. Examples of
		d using the following elements from the NRC document A Framew	
Sci	ence and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
Planning and test solutions progresses to provide data 1 • Plan and data to se (2-PS1-1) Analyzing dat collecting, rec • Analyzed works as Constructing Constructing designing solu • Make obs evidence- Engaging in Engaging in a experiences a representation	nd Interpreting Data a in K-2 builds on prior experiences and progresses to ording, and sharing observations. ata from tests of an object or tool to determine if it intended. (2-PS1-2) g Explanations and Designing Solutions explanations and designing solutions in K-2 builds on ices and progresses to the use of evidence and ideas g evidence-based accounts of natural phenomena and	 PS1.A: Structure and Properties of Matter Different kinds of matter exist and many of them can be either solid or liquid, depending on temperature. Matter can be described and classified by its observable properties. (2-PS1-1) Different properties are suited to different purposes. (2-PS1-2),(2-PS1-3) A great variety of objects can be built up from a small set of pieces. (2-PS1-3) PS1.B: Chemical Reactions Heating or cooling a substance may cause changes that can be observed. Sometimes these changes are reversible, and sometimes they are not. (2-PS1-4) 	 Patterns Patterns in the natural and human designed world can be observed. (2-PS1-1) Cause and Effect Events have causes that generate observable patterns. (2-PS1-4) Simple tests can be designed to gather evidence to support or refute student ideas about causes. (2-PS1-2) Energy and Matter Objects may break into smaller pieces and be put together into larger pieces, or change shapes. (2-PS1-3) Connections to Engineering, Technology, and Applications of Science Influence of Engineering, Technology, and Science on Society and the Natural World Every human-made product is designed by applying some knowledge of the natural world and is built using materials derived from the natural world. (2-PS1-2)
Connections to Nature of Science			
Science Models, Laws, Mechanisms, and Theories Explain Natural Phenomena • Scientists search for cause and effect relationships to explain natural events. (2-PS1-4)			
	to other DCIs in second grade: N/A		
	e State Standards Connections: -	.A (2-PS1-1),(2-PS1-2),(2-PS1-3); 5.PS1.B (2-PS1-4); 5.LS2.A (
RI.2.1 RI.2.3 RI.2.8 W.2.1	k and answer such questions as <i>who, what, where, when, why</i> , and <i>how</i> to demonstrate understanding of key details in a text. (2-PS1-4) escribe the connection between a series of historical events, scientific ideas or concepts, or steps in technical procedures in a text. (2-PS1-4) escribe how reasons support specific points the author makes in a text. (2-PS1-2)(2-PS1-4) rite opinion pieces in which they introduce the topic or book they are writing about, state an opinion, supply reasons that support the opinion, use linking words (e.g.,		
W.2.7	ecause, and, also) to connect opinion and reasons, and provide a concluding statement or section. (2-PS1-4) articipate in shared research and writing projects (e.g., read a number of books on a single topic to produce a report; record science observations). (2-PS1-1),(2-PS1- ,(2-PS1-3)		
W.2.8 Mathematics	Recall information from experiences or gather informati – Reason abstractly and guantitatively. (2-PS1-2)	ion from provided sources to answer a question. (2-PS1-1),(2-PS1	I-2),(2-¥S1-3)
MP.4 MP.5 2.MD.D.10	Model with mathematics. (2-PSI-1),(2-PSI-2) Use appropriate tools strategically. (2-PSI-2) Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take-apart, and compare problems using information presented in a bar graph. (2-PSI-1),(2-PSI-2)		
	prosents using information presented in a bar graph. (.		

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