

Wright City Science Curriculum

3rd Grade Science

Grade	3rd Grade
Unit of Study	Matter and Phase Change
Length of Unit	7 days; 30 min per day
Sample Essential Questions	Sample Corresponding Big Ideas
How is matter structured and what are its properties?	Water can change from a liquid to a solid (freeze), and back again (melt), or from a liquid to a gas (evaporation), and back again (condensation) as the result of temperature changes.
What are the types of matter and how do they interact?	Matter can be a solid, liquid, or gas. Heating or cooling a substance may cause changes that can be observed. Sometimes these changes are reversible, and sometimes they are not.

Missouri Learning Standards	
Priority Standards	Supporting Standards
3.PS1.A.1: Predict and investigate that water can change from a liquid to a solid (freeze) and back again (melt) or from a liquid to a gas (evaporation), and back again (condensation) as the result of temperature changes. 3.PS1.B.1: Construct an argument with evidence that some changes can be caused by heating or cooling can be reversed and some cannot.	3.W.3.A Gather, analyze, evaluate, and use information from a variety of sources to apply the research process.

Unit 3 Sequence			
MLS	Topic(s)	Learning Targets	Academic Vocabulary
3.PS1.A.1	Water Phase Change	"I can describe properties of matter by using my five senses."	matter, five senses
		"I can describe matter and identify matter as solid, liquid, or gas."	solid, liquid, gas
		"I can describe properties of matter."	properties
		I can explain and investigate that water has different properties depending on temperatures."	explain, investigate, temperatures
		"I can explain evaporation and condensation of water."	evaporation, condensation

3.PS1.B.1	Reversible and Irreversible Changes	"I can explain using evidence that some changes are reversible and some are irreversible."	reversible; irreversible
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MLS	Learning Activities	
3.PS1.A.1	States of Matter Activities Pg. 16 for recording; Vocabulary (p.25-31); Pg. 37-38 Under the Microscope Pass out Cereal Os and liquid glue to each student. Students will use cereal as molecules to model how molecules behave in each state. - Assignment: Pg. 12 or 13 in States of Matter Activities- Worksheet for giving examples of each state	Option L... ▾
	Lab Sheets: Properties of Matter - Chemical Change: Pick between these three - Vanishing Experiment (Chemical Change) pg. 73 - Milk and Vinegar Experiment (Chemical Change) pg. 76 Matter is Poppin - Physical Changes: Pick between these three Crystalization Lab p.75 Crayon Melting Lab Chocolate Melting Lab - Properties of Water: Electric Kettle Experiment (p.74,49-51)	Must Do ▾
	Videos: Generation Genius Particle Nature of Matter Video Generation Genius Solid, Liquid, and Gasses Video Generation Genius Physical vs. Chemical Changes Video	Must Do ▾
	States of Matter Activities - Sorting Activity - Pg. 14 or 15 for labels. Use the cards, pgs. 18-24 for card options (sort); have students sort the cards into the correct category	Must Do ▾
	Properties of Matter - Particle Simulator ; States of Matter Games ; Epic States and Changes of Matter Collection	Option L... ▾
	Readworks Water Cycle Passage (Below Level); Water Cycle Passage (On Level) Readworks Water Cycle Passage (Above Level)	Option L... ▾
3.PS1.B.1	Cut/Paste Sort Reversible or Irreversible Changes ; Answer Key ; Matter/Change Jeopardy Review	Can Do ▾
	Reversible or Irreversible (Identify and Explain) OR Reversible and Irreversible Worksheet	Must Do ▾

	Literacy Integration: Reversible Changes Literacy and Writing Integration	Option L... ▾
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Assessments		
MLS	Description or Location	Rubric/Location
3.PS1.A.1	**LABS CAN BE USED AS ASSESSMENT	States of Matter Labs
	Water Cycle and Phase Change	Pear Assessment
3.PS1.A.1 3.PS1.B.1	FORMATIVE: Matter and Phase Change	Pear Assessment

Additional Resources	
• States of Matter Google Slides • States of Matter Lesson Plans • Nearpod Lesson (Water and Phase Change) • Lab Slides: States of Matter Labs Slides	