

1st Grade SCIENCE CURRICULUM

	Suggested Time Line <i>How much time will be spent of this learning?</i>	Essential Questions and Content <i>What will be taught? (broken down by chapter/section)</i>	NJCCC Standards <i>What state standards will be met by these objectives?</i>	Instructional Objectives <i>The students will be able to...</i>	Assessment <i>What evidence will I collect that demonstrates that the students have achieved the objective?</i>	Instructional Domain <i>How will the learning be structured</i>	Instructional Activities <i>What will the students do to achieve the objective?</i>
Unit E- Describing Matter							
Chapter 10			5.6-A.1 5.6-A.2		<ul style="list-style-type: none"> • Written Reviews and Tests • Classroom observations • Ongoing lesson assessment • Performance assessment • Portfolio assessment • Lesson activities • Open ended questions • Critical thinking questions • Group discussion • Written and oral tests and quizzes • Projects • Self Assessment • Presentations • Rubrics 	<ul style="list-style-type: none"> • Differentiated instruction • Flexible Grouping • Overhead • Graphic Organizers • Teacher modeling • Guided and independent reading • Guided and independent writing • Conferencing • Technology • Direct Instruction 	<ul style="list-style-type: none"> • Observe • Classify • Measure • Communicate • Infer • Predict • Collect, record, and interpret data • Make hypotheses • Experiment • Making and using models • PODs • Discussions • Cooperative Learning Activities • Word Wall Vocabulary • Graphic Organizers • Critical Viewing and Listening
Lesson 1		How can you describe matter?		<ol style="list-style-type: none"> 1. Use senses to classify objects 2. Recall that objects can be grouped by properties 			
Lesson 2		How can you use tools to observe?		<ol style="list-style-type: none"> 1. Use tools to observe and measure objects 2. Recognize that the small parts of an object may be seen with a hand lens 			
Lesson 3		What does a magnet attract?		<ol style="list-style-type: none"> 1. Classify objects by whether they are attracted to magnets 2. Recall that magnets can both attract and repel each other 			
Lesson 4		What floats and what sinks?		<ol style="list-style-type: none"> 1. Classify objects by whether they sink or float 2. Recall that the shape or position of an object can change whether it sinks or floats 			
Chapter 11			5.6-A.3		<ul style="list-style-type: none"> • Written Reviews and Tests • Classroom observations 	<ul style="list-style-type: none"> • Differentiated instruction • Flexible Grouping • Overhead 	<ul style="list-style-type: none"> • Observe • Classify • Measure • Communicate
Lesson 1		What are solids, liquids, and gases?		<ol style="list-style-type: none"> 1. Identify the three states of matter: solids, 			

				liquids, and gases 2. Compare solids, liquids, and gases	<ul style="list-style-type: none"> • Ongoing lesson assessment • Performance assessment • Portfolio assessment • Lesson activities • Open ended questions • Critical thinking questions • Group discussion • Written and oral tests and quizzes • Projects • Self Assessment • Presentations • Rubrics 	<ul style="list-style-type: none"> • Graphic Organizers • Teacher modeling • Guided and independent reading • Guided and independent writing • Conferencing • Technology • Direct Instruction 	<ul style="list-style-type: none"> • Infer • Predict • Collect, record, and interpret data • Make hypotheses • Experiment • Making and using models • PODs • Discussions • Cooperative Learning Activities • Word Wall Vocabulary • Graphic Organizers • Critical Viewing and Listening
Lesson 2		What do heating and cooling do?	1. Explain how water can change forms 2. Describe the effects of heating and cooling on solids, liquids, and gases				
Lesson 3		What happens when you mix things?	1. Observe and describe changes when materials mix 2. Explore ways to make and separate mixtures				

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Unit F- Energy Sources and Motion							
Chapter 12			5.7-A.1 5.7-B.1		<ul style="list-style-type: none"> • Written Reviews and Tests • Classroom observations • Ongoing lesson assessment • Performance assessment • Portfolio assessment • Lesson activities • Open ended questions • Critical thinking questions • Group discussion • Written and oral tests and quizzes • Projects • Self Assessment • Presentations • Rubrics 	<ul style="list-style-type: none"> • Differentiated instruction • Flexible Grouping • Overhead • Graphic Organizers • Teacher modeling • Guided and independent reading • Guided and independent writing • Conferencing • Technology • Direct Instruction 	<ul style="list-style-type: none"> • Observe • Classify • Measure • Communicate • Infer • Predict • Collect, record, and interpret data • Make hypotheses • Experiment • Making and using models • PODs • Discussions • Cooperative Learning Activities • Word Wall Vocabulary • Graphic Organizers • Critical Viewing and Listening
Lesson 1		Where does heat come from?		<ol style="list-style-type: none"> 1. Describe the effects of heat on different materials 2. Recognize that heat is a form of energy that can make things change 			
Lesson 2		Where does light come from?		<ol style="list-style-type: none"> 1. Name objects that light can pass through and objects that light cannot pass through 2. Recognize that light is a form of energy that comes from many sources 			
Lesson 3		How is sound made?		<ol style="list-style-type: none"> 1. Recall that sound can be produced when an object vibrates 2. Recognize that sound is a form of energy that you can hear 			
Lesson 4		How are sounds different?		<ol style="list-style-type: none"> 1. Classify sounds according to their pitch and volume 2. Explain how changing the vibration of an object affects the sound it produces 			
Chapter 13			5.7-A.2		<ul style="list-style-type: none"> • Written Reviews 	<ul style="list-style-type: none"> • Differentiated 	<ul style="list-style-type: none"> • Observe

Lesson 1		What makes things move?		<ol style="list-style-type: none"> 1. Recognize that pushes and pulls are forces that change the direction of an object 2. Describe simple machines 	<ul style="list-style-type: none"> • Classroom observations • Ongoing lesson assessment • Performance assessment • Portfolio assessment • Lesson activities • Open ended questions • Critical thinking questions • Group discussion • Written and oral tests and quizzes • Projects • Self Assessment • Presentations • Rubrics 	<ul style="list-style-type: none"> • Flexible Grouping • Overhead • Graphic Organizers • Teacher modeling • Guided and independent reading • Guided and independent writing • Conferencing • Technology • Direct Instruction 	<ul style="list-style-type: none"> • Classify • Measure • Communicate • Infer • Predict • Collect, record, and interpret data • Make hypotheses • Experiment • Making and using models • PODs • Discussions • Cooperative Learning Activities • Word Wall Vocabulary • Graphic Organizers • Critical Viewing and Listening
Lesson 2		What things move fast and slow?		<ol style="list-style-type: none"> 1. Compare the speeds of objects 2. Describe the speed of a moving object 			
Lesson 3		What makes things speed up or slow down?		<ol style="list-style-type: none"> 1. Describe how the motion of an object can be changed 2. Recall that an object moves at different speeds when different forces are applied to it 			