

## 2<sup>nd</sup> Grade SCIENCE CURRICULUM

	<b>Suggested Time Line</b> <i>How much time will be spent of this learning?</i>	<b>Essential Questions and Content</b> <i>What will be taught? (broken down by chapter/section)</i>	<b>NJCCC Standards</b> <i>What state standards will be met by these objectives?</i>	<b>Instructional Objectives</b> <i>The students will be able to...</i>	<b>Assessment</b> <i>What evidence will I collect that demonstrates that the students have achieved the objective?</i>	<b>Instructional Domain</b> <i>How will the learning be structured</i>	<b>Instructional Activities</b> <i>What will the students do to achieve the objective?</i>
<b>Unit C- Treasures from Earth</b>							
<b>Chapter 6</b>							
Lesson 1		What makes up rocks and soils?	5.8-A.1 5.5-B.2	1. Compare rocks and soils 2. Describe different uses of rocks and soils	<ul style="list-style-type: none"> <li>• Written Reviews and Tests</li> <li>• Classroom observations</li> <li>• Ongoing lesson assessment</li> <li>• Performance assessment</li> <li>• Portfolio assessment</li> <li>• Lesson activities</li> <li>• Open ended questions</li> <li>• Critical thinking questions</li> <li>• Group discussion</li> <li>• Written and oral tests and quizzes</li> <li>• Projects</li> <li>• Self Assessment</li> <li>• Presentations</li> <li>• Rubrics</li> </ul>	<ul style="list-style-type: none"> <li>• Differentiated instruction</li> <li>• Flexible Grouping</li> <li>• Overhead</li> <li>• Graphic Organizers</li> <li>• Teacher modeling</li> <li>• Guided and independent reading</li> <li>• Guided and independent writing</li> <li>• Conferencing</li> <li>• Technology</li> <li>• Direct Instruction</li> </ul>	<ul style="list-style-type: none"> <li>• Observe</li> <li>• Classify</li> <li>• Measure</li> <li>• Communicate</li> <li>• Infer</li> <li>• Predict</li> <li>• Collect, record, and interpret data</li> <li>• Make hypotheses</li> <li>• Experiment</li> <li>• Making and using models</li> <li>• PODs</li> <li>• Discussions</li> <li>• Cooperative Learning Activities</li> <li>• Word Wall Vocabulary</li> <li>• Graphic Organizers</li> <li>• Critical Viewing and Listening</li> </ul>
Lesson 2		How do rocks and soil change?	1. Describe weathering and erosion 2. Explain how weathering and erosion change earth's surface				
Lesson 3		What are fossils?	1. Describe fossils 2. Explain how fossils provide clues about plants and animals that lived in the past				
<b>Chapter 7</b>							
Lesson 1		What resources do people use?	5.10-B.1	1. Identify natural resources 2. Describe use of natural resources	<ul style="list-style-type: none"> <li>• Written Reviews and Tests</li> <li>• Classroom observations</li> <li>• Ongoing lesson assessment</li> <li>• Performance assessment</li> <li>• Portfolio assessment</li> <li>• Lesson activities</li> </ul>	<ul style="list-style-type: none"> <li>• Differentiated instruction</li> <li>• Flexible Grouping</li> <li>• Overhead</li> <li>• Graphic Organizers</li> <li>• Teacher modeling</li> <li>• Guided and independent reading</li> <li>• Guided and independent writing</li> </ul>	<ul style="list-style-type: none"> <li>• Observe</li> <li>• Classify</li> <li>• Measure</li> <li>• Communicate</li> <li>• Infer</li> <li>• Predict</li> <li>• Collect, record, and interpret data</li> <li>• Make hypotheses</li> <li>• Experiment</li> </ul>
Lesson 2		How do people change the environment?	1. Define the word environment 2. Explain how people change the environment				

Lesson 3		How can people save resources?		1. Describe ways that people can conserve natural resources 2. Identify materials that can be recycled	<ul style="list-style-type: none"> <li>• Open ended questions</li> <li>• Critical thinking questions</li> <li>• Group discussion</li> <li>• Written and oral tests and quizzes</li> <li>• Projects</li> <li>• Self Assessment</li> <li>• Presentations</li> <li>• Rubrics</li> </ul>	<ul style="list-style-type: none"> <li>• Conferencing</li> <li>• Technology</li> <li>• Direct Instruction</li> </ul>	<ul style="list-style-type: none"> <li>• Making and using models</li> <li>• PODs</li> <li>• Discussions</li> <li>• Cooperative Learning Activities</li> <li>• Word Wall Vocabulary</li> <li>• Graphic Organizers</li> <li>• Critical Viewing and Listening</li> </ul>

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<b>Unit D- Patterns in the Sky</b>							
<b>Chapter 8</b>			5.8-B.3 5.8-B.4		<ul style="list-style-type: none"> <li>• Written Reviews and Tests</li> <li>• Classroom observations</li> <li>• Ongoing lesson assessment</li> <li>• Performance assessment</li> <li>• Portfolio assessment</li> <li>• Lesson activities</li> <li>• Open ended questions</li> <li>• Critical thinking questions</li> <li>• Group discussion</li> <li>• Written and oral tests and quizzes</li> <li>• Projects</li> <li>• Self Assessment</li> <li>• Presentations</li> <li>• Rubrics</li> </ul>	<ul style="list-style-type: none"> <li>• Differentiated instruction</li> <li>• Flexible Grouping</li> <li>• Overhead</li> <li>• Graphic Organizers</li> <li>• Teacher modeling</li> <li>• Guided and independent reading</li> <li>• Guided and independent writing</li> <li>• Conferencing</li> <li>• Technology</li> <li>• Direct Instruction</li> </ul>	<ul style="list-style-type: none"> <li>• Observe</li> <li>• Classify</li> <li>• Measure</li> <li>• Communicate</li> <li>• Infer</li> <li>• Predict</li> <li>• Collect, record, and interpret data</li> <li>• Make hypotheses</li> <li>• Experiment</li> <li>• Making and using models</li> <li>• PODs</li> <li>• Discussions</li> <li>• Cooperative Learning Activities</li> <li>• Word Wall Vocabulary</li> <li>• Graphic Organizers</li> <li>• Critical Viewing and Listening</li> </ul>
Lesson 1		How does weather change?	<ol style="list-style-type: none"> <li>1. Recognize daily weather patterns</li> <li>2. Recall how water gets into the air</li> <li>3. Describe different kinds of weather</li> </ol>				
Lesson 2		What is the pattern of the seasons?	<ol style="list-style-type: none"> <li>1. Recognize seasonal weather</li> <li>2. Recognize seasonal changes in daylight patterns</li> </ol>				
Lesson 3		How do living things change with the seasons?	<ol style="list-style-type: none"> <li>1. Describe how people and other living things adjust to seasonal changes in weather</li> </ol>				
<b>Chapter 9</b>			5.9-A.1 5.9-A.2 5.9-B.1 5.9-C.1 5.9-C.2		<ul style="list-style-type: none"> <li>• Written Reviews and Tests</li> <li>• Classroom observations</li> <li>• Ongoing lesson assessment</li> <li>• Performance assessment</li> <li>• Portfolio assessment</li> <li>• Lesson activities</li> <li>• Open ended questions</li> <li>• Critical thinking</li> </ul>	<ul style="list-style-type: none"> <li>• Differentiated instruction</li> <li>• Flexible Grouping</li> <li>• Overhead</li> <li>• Graphic Organizers</li> <li>• Teacher modeling</li> <li>• Guided and independent reading</li> <li>• Guided and independent writing</li> <li>• Conferencing</li> <li>• Technology</li> <li>• Direct Instruction</li> </ul>	<ul style="list-style-type: none"> <li>• Observe</li> <li>• Classify</li> <li>• Measure</li> <li>• Communicate</li> <li>• Infer</li> <li>• Predict</li> <li>• Collect, record, and interpret data</li> <li>• Make hypotheses</li> <li>• Experiment</li> <li>• Making and using models</li> <li>• PODs</li> </ul>
Lesson 1		What makes up the solar system?	<ol style="list-style-type: none"> <li>1. Identify characteristics of the sun</li> <li>2. Name objects in the solar system</li> </ol>				
Lesson 2		How does earth move?	<ol style="list-style-type: none"> <li>1. Observe how shadows are related to earth's movement</li> </ol>				

				2. Describe earth's rotation and revolution	questions • Group discussion • Written and oral tests and quizzes • Projects • Self Assessment • Presentations • Rubrics		• Discussions • Cooperative Learning Activities • Word Wall Vocabulary • Graphic Organizers • Critical Viewing and Listening
Lesson 3		How does the moon move?	1. Recall that the reflection of the sun's light allows us to see the moon 2. Tell how sunlight and the moon's orbit around earth make the moon appear to change				
Lesson 4		What stars can you see?	1. Identify stars in the night sky 2. Describe a group of stars as a constellation				