

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 C- Earth, our Home							
Chapter 6			5.8-A.1 5.8-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		What covers earth?	<ol style="list-style-type: none"> 1. Describe the materials that cover earth 2. Compare and contrast earth's natural resources 				
Lesson 2		How do people use rocks and minerals?	<ol style="list-style-type: none"> 1. Compare and classify rocks 2. Explain how people use rocks 				
Lesson 3		What is soil?	<ol style="list-style-type: none"> 1. Describe the composition of soil 2. Explain why people need soil 				
Chapter 7			5.10-B.1 5.10-B.1 (grade 3-4 standards)		<ul style="list-style-type: none"> • Written Reviews and Tests • Classroom observations • Ongoing lesson assessment • Performance assessment • Portfolio assessment • Lesson activities • Open ended 	<ul style="list-style-type: none"> • Differentiated instruction • Flexible Grouping • Overhead • Graphic Organizers • Teacher modeling • Guided and independent reading • Guided and independent writing • Conferencing 	<ul style="list-style-type: none"> • Observe • Classify • Measure • Communicate • Infer • Predict • Collect, record, and interpret data • Make hypotheses • Experiment • Making and using
Lesson 1		How do we use air?	<ol style="list-style-type: none"> 1. Explain how air becomes polluted 2. Describe air and tell why people need it 				
Lesson 2		How do we use water?	<ol style="list-style-type: none"> 1. Describe how people use water 				

				2. Explain how water becomes polluted	<ul style="list-style-type: none"> questions • Critical thinking questions • Group discussion • Written and oral tests and quizzes • Projects • Self Assessment • Presentations • Rubrics 	<ul style="list-style-type: none"> • Technology • Direct Instruction 	<ul style="list-style-type: none"> models • PODs • Discussions • Cooperative Learning Activities • Word Wall Vocabulary • Graphic Organizers • Critical Viewing and Listening
Lesson 3		How can we help earth?		<ol style="list-style-type: none"> 1. Define the words reuse, recycle, and reduce 2. Identify materials that can be recycled, reused, or reduced 			

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Unit D- Weather and Sky							
Chapter 8			5.10-B.2 5.10-B.3 5.10-B.4		<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		What is weather?		<ol style="list-style-type: none"> 1. Describe weather 2. Recall that weather changes over time 			
Lesson 2		How can you measure weather?		<ol style="list-style-type: none"> 1. Identify tools used to measure weather 			
Lesson 3		What are cloud and rain?		<ol style="list-style-type: none"> 1. Describe the water cycle 2. Identify kinds of clouds 			
Lesson 4		What is weather like in spring and summer?		<ol style="list-style-type: none"> 1. Describe spring and summer 2. Recall that weather and living things change seasonally 			
Lesson 5		What is weather like in fall and winter?		<ol style="list-style-type: none"> 1. Describe fall and winter 2. Recall that weather and living things change seasonally 			
Chapter 9			5.10-D.1 5.9-A.2 5.9-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 	<ul style="list-style-type: none"> • Differentiated instruction • Flexible Grouping • Overhead • Graphic Organizers • Teacher modeling • Guided and independent reading • Guided and independent writing • Conferencing 	<ul style="list-style-type: none"> • Observe • Classify • Measure • Communicate • Infer • Predict • Collect, record, and interpret data • Make hypotheses • Experiment • Making and using
Lesson 1		What can you see in the sky?		<ol style="list-style-type: none"> 1. identify and describe objects in the day sky 2. identify and describe objects in the night sky 			
Lesson 2		What causes day and night?		<ol style="list-style-type: none"> 1. Identify what causes day and night 2. Describe how earth's rotation causes day and 			

				night	questions	• Technology	models
					• Critical thinking questions	• Direct Instruction	• PODs
Lesson 3		How does the moon seem to change?		1. Recall that the moon seems to change shape 2. Compare the shape of the moon at different times of the month	• Group discussion		• Discussions
					• Written and oral tests and quizzes		• Cooperative Learning Activities
					• Projects		• Word Wall Vocabulary
					• Self Assessment		• Graphic Organizers
Lesson 4		How does the sun seem to move?		1. Identify ways that the sun seems to move 2. recall what makes the sun seem to move across the sky	• Presentations		• Critical Viewing and Listening
					• Rubrics		