

KINDERGARTEN 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 D- Pushes and Pulls							
Lesson 1		What are moving things?	5.7-A.1	<ol style="list-style-type: none"> 1. Observe that some objects seem to move 2. Identify clues that tell whether an object is in motion 	<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 2		How do living things move?	5.7-A.1	1. Identify ways in which living things move	<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 • POD's • Discussions • Cooperative Learning Activities • Word Wall Vocabulary • Graphic Organizers • Critical Viewing and Listening
Lesson 3		What is pushing and pulling?	5.7-A.2	<ol style="list-style-type: none"> 1. Identify the forces of pushing and pulling 2. Describe what happens to an object when it is pushed or pulled 	<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 4		Do surfaces affect how an object moves?	5.7-A.2	<ol style="list-style-type: none"> 1. Observe how different surfaces affect the distance an object moving over them will travel 2. Describe the effects of different surfaces on how easy it is to move an object over them 	<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 5		Why do objects fall to the ground	5.7-A.2	<ol style="list-style-type: none"> 1. Observe that objects fall towards the earth 2. Identify forces that keep objects from falling 	<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 6		What makes an object move back and forth?	5.7-A.1 5.7-A.2	<ol style="list-style-type: none"> 1. Observe and identify objects that move in a back-and-forth motion 2. Infer that causes of this back-and-forth motion 	<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 7		What makes an object move round and round?	5.7-A.1 5.7-A.2	<ol style="list-style-type: none"> 1. Observe and identify objects that move in a round-and-round motion 2. Infer that causes of this round-and-round motion 	<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 8		What properties affect how an object moves?	5.7-A.2	1. Observe and identify some properties of an object that affect the motion of that object when acted upon by a push or pull	<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 9		Can you change how something moves?	5.7-A.1 5.7-A.2	1. Observe the way an object's directional motion is changed when that object strikes another object	<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