

Unit 1: How Scientist Work		Time: <i>August-September</i>
Standards Taught		
<ul style="list-style-type: none"> 1-PS4-1 Plan and carry out an investigation to provide evidence that vibrating materials can make sound and that sound can make materials vibrate 		
Differentiation/Assessment:	Classroom Management and Environment:	What will the students be doing?
<i>Students who need extra help will receive guidance from our Title teacher or aides. If appropriate, they will take their tests or complete worksheets in an alternative setting.</i>	<i>Our classroom is set up with each student having their own desk with whole group discussion. At the end of each unit we will conduct a lab experiment and students will work in small groups.</i>	<ul style="list-style-type: none"> <i>Reading the lessons</i> <i>Answering comprehension questions</i> <i>Participating in class discussions</i> <i>Science Labs</i>
Relevance	Vocabulary	Assessments
<i>Children will understand that scientists use inquiry skills and tools to help them find out information.</i>	<ul style="list-style-type: none"> <i>Senses</i> <i>Science tools</i> <i>Inquiry skills</i> <i>investigation</i> 	<ul style="list-style-type: none"> <i>Workbook comprehension questions</i> <i>Class discussions</i> <i>Observations</i>
Essential Questions:		
<ul style="list-style-type: none"> <i>How do you find out about things that are happening in the world around you?</i> <i>How many senses are?</i> <i>What is the difference between a ruler and a tape measure?</i> <i>How can we use our senses?</i> <i>What are inquiry skills?</i> <i>How do we use inquiry skills?</i> <i>Why do scientists plan an investigation?</i> <i>What are two things you can do to make sure that the results of a test are correct?</i> <i>Why is it important to record what you observe in an investigation?</i> <i>What are the steps for scientific investigation?</i> 		

Unit 2: Technology All Around Us		Time: <i>September</i>
Standards Taught		
<ul style="list-style-type: none"> 1-PS4-3 Plan and carry out an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. 		
Differentiation/Assessment:	Classroom Management and Environment:	What will the students be doing?
<i>Students who need extra help will receive guidance from our Title teacher or aides. If appropriate, they will take their tests or complete worksheets in an alternative setting.</i>	<i>Our classroom is set up with each student having their own desk with whole group discussion. At the end of each unit we will conduct a lab experiment and students will work in small groups.</i>	<ul style="list-style-type: none"> <i>Reading the lessons</i> <i>Answering comprehension questions</i> <i>Participating in class discussions</i> <i>Science Labs</i>
Relevance	Vocabulary	Assessments
<i>Children will understand that engineers use a process to design and build something new and with many different kinds of materials.</i>	<ul style="list-style-type: none"> - <i>Engineer</i> - <i>Design process</i> - <i>Materials</i> - <i>Natural</i> - <i>Human-made</i> 	<ul style="list-style-type: none"> <i>Workbook comprehension questions</i> <i>Class discussions</i> <i>Observations</i>
Essential Questions:		
<ul style="list-style-type: none"> <i>How do engineers work?</i> <i>What are the steps of the design process?</i> <i>What are some human-made materials?</i> <i>What are some natural materials?</i> <i>Why is it important to have different materials to use for building?</i> <i>How can materials be sorted?</i> 		

Unit 3: Animals		Time: October
Standards Taught		
<ul style="list-style-type: none"> 1-LS1-1 Design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. 1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 		
Differentiation/Assessment:	Classroom Management and Environment:	What will the students be doing?
<i>Students who need extra help will receive guidance from our Title teacher or aides. If appropriate, they will take their tests or complete worksheets in an alternative setting.</i>	<i>Our classroom is set up with each student having their own desk with whole group discussion. At the end of each unit we will conduct a lab experiment and students will work in small groups.</i>	<ul style="list-style-type: none"> Reading the lessons Answering comprehension questions Participating in class discussions Science Labs
Relevance	Vocabulary	
<i>Children will understand that all animals have to meet needs in order to live and grow. There are many different kinds of animals and they are grouped by their traits.</i>	<ul style="list-style-type: none"> - living - nonliving - reproduce - environment - gills - shelter 	<ul style="list-style-type: none"> - mammal - bird - reptile - amphibian - fish - insect
Assessments		
<ul style="list-style-type: none"> Workbook comprehension questions Class discussions Observations 		
Essential Questions:		
<ul style="list-style-type: none"> What are living and non-living things? In what ways are plants, animals and people alike? How do animals grow and change? How do plants grow and change? What do animals need? How are the needs of people like the needs of animals? How are animals different? How are pets and animals in the wild alike? How is the way that fish and land animals get oxygen different? How can we group animals? What are two unique skin features of reptiles? 		

Unit 4: Plants		Time: <i>November</i>
Standards Taught		
<ul style="list-style-type: none"> • 1-LS1-1 Design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. • 1-LS1-2 Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. • 1-LS3-1 Construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. • 1-PS4-3 Plan and carry out an investigation to determine the effect of placing objects made with different materials in the path of a beam of light 		
Differentiation/Assessment:	Classroom Management and Environment:	What will the students be doing?
<i>Students who need extra help will receive guidance from our Title teacher or aides. If appropriate, they will take their tests or complete worksheets in an alternative setting.</i>	<i>Our classroom is set up with each student having their own desk with whole group discussion. At the end of each unit we will conduct a lab experiment and students will work in small groups.</i>	<ul style="list-style-type: none"> • <i>Reading the lessons</i> • <i>Answering comprehension questions</i> • <i>Participating in class discussions</i> • <i>Science Labs</i>
Relevance	Vocabulary	
<i>Children will understand that there are many different kinds of plants and they have parts to help them meet their basic needs.</i>	<ul style="list-style-type: none"> - <i>Sunlight</i> - <i>Soil</i> - <i>Nutrients</i> - <i>Flower cone</i> - <i>Root</i> 	<ul style="list-style-type: none"> - <i>leaf</i> - <i>flower</i> - <i>seed</i> - <i>fruit</i> - <i>stem</i>
Essential Questions:		
<ul style="list-style-type: none"> • <i>What do plants need to survive?</i> • <i>What are two ways you can help a plant?</i> • <i>What are some parts of a plant?</i> • <i>Why do plants need roots and stems?</i> • <i>What kind of living thing can make its own food?</i> • <i>In which two places could you look on a plant to find its seeds?</i> 		

Unit 5: Environments		Time: <i>December</i>
Standards Taught		
<ul style="list-style-type: none"> 1-LS1-1: Design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs 		
Differentiation/Assessment:	Classroom Management and Environment:	What will the students be doing?
<i>Students who need extra help will receive guidance from our Title teacher or aides. If appropriate, they will take their tests or complete worksheets in an alternative setting.</i>	<i>Our classroom is set up with each student having their own desk with whole group discussion. At the end of each unit we will conduct a lab experiment and students will work in small groups.</i>	<ul style="list-style-type: none"> <i>Reading the lessons</i> <i>Answering comprehension questions</i> <i>Participating in class discussions</i> <i>Science Labs</i>
Relevance	Vocabulary	Assessments
<i>Children will understand that environments can be found all over Earth and that an environment that meets its needs.</i>	<ul style="list-style-type: none"> <i>Environment</i> <i>Shelter</i> <i>Food chain</i> 	<ul style="list-style-type: none"> <i>Workbook comprehension questions</i> <i>Class discussions</i> <i>Observations</i>
Essential Questions:		
<ul style="list-style-type: none"> <i>Where do plants and animals live?</i> <i>What are five main environments discussed?</i> <i>What is a terrarium?</i> 		

Unit 6: Earth's Resources		Time: <i>January</i>
Standards Taught		
<ul style="list-style-type: none"> 1-LS1-1 Design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs. 		
Differentiation/Assessment:	Classroom Management and Environment:	What will the students be doing?
<i>Students who need extra help will receive guidance from our Title teacher or aides. If appropriate, they will take their tests or complete worksheets in an alternative setting.</i>	<i>Our classroom is set up with each student having their own desk with whole group discussion. At the end of each unit we will conduct a lab experiment and students will work in small groups.</i>	<ul style="list-style-type: none"> <i>Reading the lessons</i> <i>Answering comprehension questions</i> <i>Participating in class discussions</i> <i>Science Labs</i>
Relevance	Vocabulary	
<i>Children will understand that there are many kinds of resources on Earth and we can help save Earth's resources.</i>	<ul style="list-style-type: none"> - <i>Natural resource</i> - <i>Rock</i> - <i>Soil</i> - <i>Property</i> - <i>Pollution</i> - <i>reduce</i> 	<ul style="list-style-type: none"> - <i>texture</i> - <i>stream</i> - <i>river</i> - <i>lake</i> - <i>ocean</i> - <i>reuse</i> - <i>recycle</i>
Assessments		
<ul style="list-style-type: none"> <i>Workbook comprehension questions</i> <i>Class discussions</i> <i>Observations</i> 		
Essential Questions:		
<ul style="list-style-type: none"> <i>What can we find on Earth?</i> <i>What are rocks and soil?</i> <i>What can we observe about rocks?</i> <i>How do soils differ?</i> <i>Where can we find water?</i> <i>How can we save resources?</i> 		

Unit 7: Weather and Seasons		Time: <i>February</i>
Standards Taught		
<ul style="list-style-type: none"> 1-ESS1-2 Make observations at different times of the year to relate the amount of daylight to the time of year. 		
Differentiation/Assessment:	Classroom Management and Environment:	What will the students be doing?
<i>Students who need extra help will receive guidance from our Title teacher or aides. If appropriate, they will take their tests or complete worksheets in an alternative setting.</i>	<i>Our classroom is set up with each student having their own desk with whole group discussion. At the end of each unit we will conduct a lab experiment and students will work in small groups.</i>	<ul style="list-style-type: none"> <i>Reading the lessons</i> <i>Answering comprehension questions</i> <i>Participating in class discussions</i> <i>Science Labs</i>
Relevance	Vocabulary	Assessments
<i>Children will understand that weather changes from day to day and from season to season and that you can use different tools to measure weather.</i>	<ul style="list-style-type: none"> <i>- Wind</i> <i>- Weather</i> <i>- Temperature</i> <i>- Season</i> <i>- Weather pattern</i> 	<ul style="list-style-type: none"> <i>Workbook comprehension questions</i> <i>Class discussions</i> <i>Observations</i>
Essential Questions:		
<ul style="list-style-type: none"> <i>What is weather?</i> <i>What can we observe about weather?</i> <i>What are the seasons?</i> 		

Unit 8: Objects in the Sky		Time: <i>March</i>
Standards Taught		
<ul style="list-style-type: none"> 1-ESS1-1 Use observations of the sun, moon, and stars to describe patterns that can be predicted. 		
Differentiation/Assessment:	Classroom Management and Environment:	What will the students be doing?
<i>Students who need extra help will receive guidance from our Title teacher or aides. If appropriate, they will take their tests or complete worksheets in an alternative setting.</i>	<i>Our classroom is set up with each student having their own desk with whole group discussion. At the end of each unit we will conduct a lab experiment and students will work in small groups.</i>	<ul style="list-style-type: none"> <i>Reading the lessons</i> <i>Answering comprehension questions</i> <i>Participating in class discussions</i> <i>Science Labs</i>
Relevance	Vocabulary	
<i>Children will understand that the sun warms land, air and water and that the appearance of objects in the sky changes.</i>	<ul style="list-style-type: none"> - <i>Sun</i> - <i>Star</i> - <i>Moon</i> - <i>Magnify</i> - <i>telescope</i> 	<ul style="list-style-type: none"> - <i>shadow</i> - <i>phases</i>
Assessments		
<ul style="list-style-type: none"> <i>Workbook comprehension questions</i> <i>Class discussions</i> <i>Observations</i> 		
Essential Questions:		
<ul style="list-style-type: none"> <i>What can we see in the sky?</i> <i>How does the sky seem to change?</i> <i>How does the sun seem to move?</i> 		

Unit 9: All About Matter		Time: April
Standards Taught		
<ul style="list-style-type: none"> 1-PS4-2 Construct an evidence-based account for how objects can be seen only when illuminated. 		
Differentiation/Assessment:	Classroom Management and Environment:	What will the students be doing?
<i>Students who need extra help will receive guidance from our Title teacher or aides. If appropriate, they will take their tests or complete worksheets in an alternative setting.</i>	<i>Our classroom is set up with each student having their own desk with whole group discussion. At the end of each unit we will conduct a lab experiment and students will work in small groups.</i>	<ul style="list-style-type: none"> Reading the lessons Answering comprehension questions Participating in class discussions Science Labs
Relevance	Vocabulary	
<i>Children will understand that all objects are matter and matter can change in different ways.</i>	<ul style="list-style-type: none"> Matter Property Texture Weight Temperature dissolve 	<ul style="list-style-type: none"> matter mass solid liquid gas mixture
Essential Questions:		
<ul style="list-style-type: none"> What can we observe about objects? What are solids, liquids and gases? How can we measure temperature? How can matter change? What dissolves in water? 		

Unit 10: Forces and Energy		Time: May
Standards Taught		
<ul style="list-style-type: none"> • 1-PS4-1 Plan and carry out an investigation to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. • 1-PS4-4 Design and build a device that uses light or sound to solve the problem of communicating over a distance. 		
Differentiation/Assessment:	Classroom Management and Environment:	What will the students be doing?
<i>Students who need extra help will receive guidance from our Title teacher or aides. If appropriate, they will take their tests or complete worksheets in an alternative setting.</i>	<i>Our classroom is set up with each student having their own desk with whole group discussion. At the end of each unit we will conduct a lab experiment and students will work in small groups.</i>	<ul style="list-style-type: none"> • Reading the lessons • Answering comprehension questions • Participating in class discussions • Science Labs
Relevance	Vocabulary	
<i>Children will understand that forces change the way objects move and sound is energy that you hear.</i>	<ul style="list-style-type: none"> - Motion - Speed - Push - Pull - force 	<ul style="list-style-type: none"> - sound - vibrate - loudness - pitch
Assessments		
<ul style="list-style-type: none"> • Workbook comprehension questions • Class discussions • Observations 		
Essential Questions:		
<ul style="list-style-type: none"> • How do objects move? • How can we change the way objects move? • How can we change motion? • What is sound? • How do we make sound? 		