Unit 1: Work Like a Scientist Time: August-Sep		
Standards Taught		
investigation to describe and classify dif	ferent kinds of materials by	
Classroom Management and	What will the students be	
Environment:	doing?	
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.	<ul> <li>Reading the lessons</li> <li>Answering comprehension questions</li> <li>Participating in class discussions</li> <li>Science Labs</li> </ul>	
Vocabulary	Assessments	
<ul> <li>Thermometer</li> <li>Science tools</li> <li>Inquiry skills</li> <li>Investigation</li> <li>Draw Conclusions</li> </ul>	<ul> <li>Workbook comprehension questions</li> <li>Class discussions</li> <li>Observations</li> </ul>	
	Standards Taught         investigation to describe and classify dif         Classroom Management and Environment:         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.         Vocabulary         - Thermometer         - Science tools         - Inquiry skills         - Investigation	

- How do we use science tools?
- What tools can we use?
- How do we solve problems?
- How do scientists think?
- How do we use inquiry skills?
- Why do scientists plan an investigation?
- What are two things you can do to make sure that the results of a test are correct?
- Why is it important to record what you observe in an investigation?
- What are the steps for scientific investigation?

Unit 2: Technology and Our Wo	rld Time: Septe	Time: September		
	Standards Taught			
• 2-PS1-2 Analyze data obtained the properties that are best su	-	ls to determine which materials have		
Differentiation/Assessment:	Classroom Management Environment:	and What will the students be doing?		
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.	Our classroom is set up with student having their own de with whole group discussion the end of each unit we will conduct a lab experiment an students will work in small groups.	esk Answering n. At comprehension questions nd Participating in class discussions Science Labs		
Relevance	Vocabulary	Assessments		
Children will understand that engineers use a process to design new technology to meet human needs. Also that technology affects our everyday life.	<ul> <li>Engineer</li> <li>Design process</li> <li>Technology</li> <li>Environment</li> </ul>	<ul> <li>Workbook comprehension questions</li> <li>Class discussions</li> <li>Observations</li> </ul>		
Essential Questions:				
<ul> <li>What are the steps of th</li> <li>How can we use the dest</li> <li>What is technology?</li> <li>How can we improve tec</li> <li>How can we make a heli</li> </ul>	gn process? hnology?			

Unit 3: All About Animals	Т	ime: October	
	Standards Ta	aught	
<ul> <li>2-LS2-2 Develop a simple mod pollinating plants.</li> <li>2-LS4-1 Make observations of</li> </ul>			
Differentiation/Assessment:	Classroom Man Environ	What will the students be doing?	
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.	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.		<ul> <li>Reading the lessons</li> <li>Answering comprehension questions</li> <li>Participating in class discussions</li> </ul>
Relevance	Vocabulary		Science Labs     Assessments
Children will understand that there are many kinds of animals and that animals need certain things to live and grow.	<ul> <li>Survive</li> <li>Lungs</li> <li>Gills</li> <li>Shelter</li> <li>Mammal</li> <li>Amphibian</li> <li>Metamorphosis</li> <li>Pupa</li> </ul>	<ul> <li>Bird</li> <li>Reptile</li> <li>Fish</li> <li>Insect</li> <li>Reproduce</li> <li>Tadpole</li> <li>Life Cycle</li> <li>Larva</li> </ul>	<ul> <li>Workbook comprehension questions</li> <li>Class discussions</li> <li>Observations</li> </ul>
Essential Questions: • What's my life cycle? • What are animal needs? • How do animals grow an • What are some kinds of • How do we compare ani • How do body coverings h • What are some animal h • What are fossils? • How can we model fossi	nd change? animals? mals? help animals? ife cycles?		

Unit 4: All About Plants	1	<b>Fime:</b> November	
	Standards	s Taught	
• 2-LS2-1 Plan and carry out an	investigation to det	ermine if plants need	d sunlight and water to grow
• 2-LS2-2 Develop a simple mod	lel that mimics the f	unction of an anima	l in dispersing seeds or
pollinating plants.			
	i .		rsity of life in different habitats What will the students be
Differentiation/Assessment:	Classroom Management and Environment:		doing?
Students who need extra help		set up with each	Reading the lessons
will receive guidance from our	student having t	•	<ul> <li>Answering</li> </ul>
Title teacher or aides. If	with whole group		comprehension
appropriate, they will take	the end of each unit we will		questions
their tests or complete	conduct a lab experiment and		Participating in class
worksheets in an alternative	students will work in small		discussions
setting.	groups.		Science Labs
Relevance	Vocabulary		Assessments
Children will understand that	- Basic needs	- Seedling	Workbook
all plants need certain things	- Nutrients	- Germinate	comprehension
to live and grow. Also that all	- Flower	- Cone	questions
plants have parts that help	- Seed	- Pollen	Class discussions
them grow and change?			Observations
Essential Questions:			
• What are plant needs?			
<ul> <li>What do plants need to</li> </ul>	5		
• What are some parts of	-		
What are some plant life	,		
• How does a bean plant g			
How can we bring water	-		
<ul> <li>Do all plants start as see</li> </ul>	ds?		

<b>Unit 5: Environments for Living</b>	Things T	i <b>me:</b> December	
	Standards	Taught	
<ul> <li>2-ESS1-1 Use information from quickly or slowly.</li> <li>2-LS2-2 Develop a simple mod pollinating plants.</li> </ul>	lel that mimics the f	unction of an anima	l in dispersing seeds or
Differentiation/Assessment:			rsity of life in different habitats What will the students be
Differentiation/Assessment:	Classroom Management and Environment:		doing?
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.	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.		<ul> <li>Reading the lessons</li> <li>Answering comprehension questions</li> <li>Participating in class discussions</li> <li>Science Labs</li> </ul>
Relevance	Vocabulary		Assessments
Children will understand that living things meet their needs in their environment and that environments change over time.	<ul> <li>Environment</li> <li>Pollen</li> <li>Food Chain</li> <li>Adaptations</li> </ul>	- Resource	<ul> <li>Workbook comprehension questions</li> <li>Class discussions</li> <li>Observations</li> </ul>
Essential Questions:	I	I	
<ul> <li>How do plants and anim</li> <li>How are living things ad</li> <li>Can plants survive in diff</li> <li>How do environments ch</li> <li>Can we model a food cho</li> <li>What adaptations help c</li> <li>How does a flood change</li> </ul>	apted to their envi erent environment nange over time? nin? n bird survive?	ronment? s?	

Unit 6: Earth and Its Resources		<b>Fime:</b> January	
	Standards	s Taught	
<ul> <li>2-ESS1-1 Use information from quickly or slowly.</li> <li>2-ESS2-1 Compare multiple so shape of the land.</li> <li>2-ESS2-2 Develop a model to r</li> <li>2-ESS2-3 Obtain information t</li> </ul>	lutions designed to epresent the shape	slow or prevent win s and kinds of land a	d or water from changing the and bodies of water in an area
liquid.			
Differentiation/Assessment:		anagement and nment:	What will the students be doing?
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. Relevance Children will understand that changes occur to Earth's surface. Also that people need Earth resources.	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.         Vocabulary         - Earthquake       - Erosion         - Weathering       - Drought         - Volcano       - Natural         - Flood       Resources         - Product		<ul> <li>Reading the lessons</li> <li>Answering comprehension questions</li> <li>Participating in class discussions</li> <li>Science Labs</li> <li>Assessments</li> <li>Workbook comprehension questions</li> <li>Class discussions</li> <li>Observations</li> </ul>
Essential Questions: How does erosion affect How does an earthquake What changes Earth? What is a geologist? What natural resources w What are natural resources How can we classify plan	e change Earth's la were used to make ces?		

Unit 7: All About Weather	1	T <b>ime:</b> February	
	Standards	a Taught	
<ul> <li>2-ESS2-2 Develop a model to</li> <li>2-ESS2-3 Obtain information t liquid.</li> </ul>	•		nd bodies of water in an area. n and that it can be solid or
Differentiation/Assessment:	Classroom Management and Environment: 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.		What will the students be doing?
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.			<ul> <li>Reading the lessons</li> <li>Answering comprehension questions</li> <li>Participating in class discussions</li> <li>Science Labs</li> </ul>
Relevance	Vocabulary		Assessments
Children will understand that weather changes from day to day and season to season.	- Earthquake - Weathering - Volcano - Flood	<ul> <li>Erosion</li> <li>Drought</li> <li>Natural Resources</li> <li>Product</li> </ul>	<ul> <li>Workbook comprehension questions</li> <li>Class discussions</li> <li>Observations</li> </ul>
Essential Questions: How does weather chan How does the sun heat E What are some weather How can we measure pr How do seasons affect li How can we prepare for	Earth? patterns? ecipitation? ving things?		

Unit 8: The Solar System	Ti	me: March	
	Standards <sup>-</sup>	Гaught	
• 2-ESS2-2 Develop a model to	represent the shapes	and kinds of land a	and bodies of water in an area. –
• 2-ESS2-3 Obtain information t liquid.			
<ul> <li>2-ESS1-1 Use information from quickly or slowly</li> </ul>	n several sources to p	provide evidence th	hat Earth events can occur
Differentiation/Assessment:	Classroom Man	agement and	What will the students be
	Environ	ment:	doing?
Students who need extra help	Our classroom is s	et up with each	Reading the lessons
will receive guidance from our	student having the	eir own desk	Answering
Title teacher or aides. If	with whole group	discussion. At	comprehension
appropriate, they will take	the end of each unit we will		questions
their tests or complete	conduct a lab experiment and		• Participating in class
worksheets in an alternative	students will work in small		discussions
setting.	groups.		Science Labs
Relevance	Vocabulary		Assessments
Children will understand that	- Planet	- Orbit	Workbook
Earth is a planet in our solar	- Solar System	- Rotate	comprehension
system and changes happen	- Constellation	- Star	questions
on Earth.			Class discussions
			Observations
Essential Questions:			
• What are the planet and	l stars?		
• What causes day and nig	ght?		
• How can we model day a	and night?		
• Why is the sun the only s	star you see during t	he day?	
• What do Astronomers st	udy?	-	
• Why do shadows appear	•		

Unit 9: Changes in Matter	Т	ime: April	
	Standards	•	
<ul> <li>2-PS1-1 Plan and carry out an their observable properties</li> <li>2-PS1-2 Analyze data obtaine the properties that are best su</li> <li>2-PS1-3 Construct an evidence disassembled and made into a</li> <li>2-PS1-4 Construct an argumer or cooling can be reversed and</li> </ul>	investigation to des d from testing differ uited for an intender e-based account of h a new object. nt using reasoning a	cribe and classify different materials to detend of the de	rmine which materials have of a small set of pieces can be
Differentiation/Assessment:	Classroom Ma	anagement and	What will the students be
	Enviro	onment:	doing?
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. <b>Relevance</b> Children will understand that matter can have different properties. It can be a solid, liquid, or a gas. Also the properties of matter can	whole group disc of each unit we w experiment and s in small groups.	heir own desk with ussion. At the end	<ul> <li>Reading the lessons</li> <li>Answering comprehension questions</li> <li>Participating in class discussions</li> <li>Science Labs</li> <li>Assessments</li> <li>Workbook comprehension questions</li> <li>Class discussions</li> <li>Observations</li> </ul>
change.	- Gas		
Essential Questions: • What is matter? • How can we compare vo • How does matter change • How can water change s • How can we measure the • How does the shape of t	e? tates? e mass of a solid?	t evaporation?	

Unit 10: Energy and Magnets		Time: May	
	Standard	ds Taught	
<ul> <li>2-PS1-1 Plan and carry out an their observable properties</li> <li>2-PS1-2 Analyze data obtaine the properties that are best su</li> <li>2-PS1-3 Construct an evidence disassembled and made into a</li> <li>2-PS1-4 Construct an argumer or cooling can be reversed and</li> </ul>	d from testing diff ited for an intend e-based account of new object. It using reasoning	erent materials to det ed purpose. f how an object made	ermine which materials have of a small set of pieces can be
Differentiation/Assessment:		lanagement and	What will the students be
·		onment:	doing?
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. Relevance Children will understand that heat, light, and sound are	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.Vocabulary- Energy- Energy- Heat - Magnet		<ul> <li>Reading the lessons</li> <li>Answering comprehension questions</li> <li>Participating in class discussions</li> <li>Science Labs</li> <li>Assessments</li> <li>Workbook comprehension</li> </ul>
forms of energy. Also that magnets attract some objects and repel others.	- Sound - Pitch - Light - Loudness	- Repel - Pole - Attract	<ul><li>questions</li><li>Class discussions</li><li>Observations</li></ul>
Essential Questions: • What is energy? • What are magnets? • How strong is a magnet? • How does the amount of • How does heat affect bu • What objects does a magnets used in	light affect how tter? gnet attract?		