Sciences Curriculum

<u>Class</u>: Grade 5 <u>Cycle</u>: Upper Elementary

<u>Subject:</u> Sciences <u>Textbook</u>: Macmillan/McGraw-Hill

- identify the two main parts of ecosystem. - Construct models of ecosystem - Distinguish between biotic and factors. - Define population and give example to the parts that make an ecosystem or the parts tha	<u>Learning</u> <u>Domains/Units</u>	<u>objectives</u>	Learning outcomes/competencies Students should be able to
, ,,,	Unit B /Ecosystems	-	-Construct models of ecosystemsDistinguish between biotic and abiotic
chains follow. -Define consumers and give example of the composers and give example.	Interactions in	pattern that all food	 -Define producers and give examples. -Define consumers and give examples. -Define decomposers and give examples -Define food chains and give examples.

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ecosystems		pictures of producers, consumers and
		Decomposers.
	-Indicate the type of	
	energy flow in an energy	
	pyramid.	
		-Define an energy pyramid .
		-Explain how energy is utilized in an energy pyramid.
		- Construct models of energy pyramid
	-Explain why organisms	
	Compete in an	
	ecosystem.	
		D.C.
		-Define competition.
		- Define limiting factors.
		-Relate competition to the
		Limiting factors in an organism 's
		environment.
		-Define carrying capacity.
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	-Describe how	
	organisms avoid competition in an	
	ecosystem.	
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		-Define habitat and give examples.
		-Define niche and give examples.
		- Identify ways used by organisms to avoid competition.

Interactions in	- Discuss the three types	-Interpret the data of a bar graph
ecosystems	- Discuss the three types of symbiosis.	to study the effect of the variation of producers or consumers on the ecosystem.
	-Identify the different types of adaptations in plants and animals.	-List the three types of symbiosis. -Define mutualism and give examples. -Define parasitism and give examples. -Define commensalism and give examples. -Compare and contrast mutualism and parasitism. -Compare and contrast mutualism and commensalism. -Compare and contrast parasitism and Commensalism. -Define adaptation -Compare and contrast structural and behavioral adaptation. -Identify some plant adaptations Identify some animal adaptations.I -Compare and contrast camouflage and mimicry
		minici y

Unit B/Ecosystems Ecosystems and	-Describe the characteristics Of the six major biomes.	-List the six major land biomes.- Describe the climate ,plants and animals of each biome.
Biomes		-Match each biome to its specific characteristic .

Unit C/Earth and its Resources	-ldentify the major Earth's landforms.	-Define landformsClassify landforms as Land features and water features.
Our Dynamic Earth	-Discuss the characteristics Of the Earth's layers.	-List the Earth's layers in order from outside to insideIdentify the main characteristics of each Earth's layer.
	-Discuss the theory of plate tectonics.	-State the theory of continental drift, -Explain the theory of

	-Identify the three types of plate movement.	continental drift using the theory of plate Tectonics. -Name the 3 types of plate Movement. -Identify the consequence of each type of plate movement.
	-Explain why volcanoes eruptDescribe how volcanoes build land.	-Define a volcano. -Draw and label the main parts of a volcano. -Describe the steps leading to volcanic eruption.
Our Dynamic Earth	-Describe the main cause of earthquakes.	_Define earthquake. -Define focus and epicenter of an earthquake. -Describe the steps leading to earhquakes. -Identify the instrument used to detect earthquakes. -list some earthquakes safety tips. -Model the strongest and the tallest tower in Japan.

Unit E/ Matter and its properties	-Describe the physical properties of matter.	-Define matterDefine massDefine Volume.
	-Calculate the volume of a given object.	-Calculate the volume of a rectangular prism given its length, width ,and height.
Classifying matter		
	-Distinguish between physical Changes and chemical changes.	-Classify a given change as physical or chemical change.
	-Describe the three states of matter.	-list the three states of matter.
		-Describe the properties of each state of matter.