Science: Grade 4		
UNIT/Weeks	Timeline/Topics	Essential Questions
1.6	 Structures and Functions of Living Things Structures and Functions of Plants Structures and Functions of Animals Information Processing in Animals The Role of Animals' Eyes 	 How do plant structures help them survive and reproduce? How do animal structures help them survive? How do animals sense and respond to information? How do animals see?
1.6	 Energy and Motion Energy and Speed Energy Change in Collisions 	 How are energy and speed related? What happens when objects collide?
1.6	 Transfer of Energy Types of Energy Transfer Transfer of Energy by Electricity Transfer of Energy by Light Design Energy Solutions 	 How is energy transferred? How do the electric currents transfer energy? How does light transfer energy? What kinds of problems can be solved by understanding energy transfer?
1.6	 Wave Patterns and Information Transfer How Waves Move How Waves Transmit Information 	 How do waves travel? How do we use patterns and waves to transmit information?
1.6	 Energy From Natural Resources Energy from Nonrenewable Resources Energy from Renewable Resources 	 What are the benefits and drawbacks of renewable and nonrenewable resources? How are renewable resources used as energy?

		How do variations in traits provide advantages for survival?
1.6	 Patterns of Earth's Changing Features Earth's Landforms and Features Effects of Erosion History of Earth's Surface 	 What are Earth's features? How do living and nonliving things change Earth's surface? What can rock formations tell us about Earth's history?
1.8	Natural Hazards Earthquakes and Volcanoes Tsunamis and Floods	 How are people affected by earthquakes and volcanoes? How can people prepare for floods?