Fifth Grade Parent Guide - Science

	1 st Grading Period	2 nd Grading Period	3 rd Grading Period	4 th Grading Period
Topics	Matter Force and Motion	Light and Shadows The Sky	Rocks, Soil, Water Plants	Plants Animals
Topic Focus	Scientific Investigation & Reasoning Use scientific practices to plan and conduct descriptive and simple experimental investigations and use engineering practices to design solutions to problems. Identify and use patterns to explain scientific phenomena or to design solutions. Explore interactions between magnets & various materials Content Compare and contrast matter based on its physical properties by selecting the best material for the project. Compare and contrast the behavior of matter based on its physical state. Physical properties of some substances change when they are mixed, but the properties of other substances do not. Forces and energy affect the motion of an object.	Scientific Investigation & Reasoning Collect observations and measurements as evidence. Identify and use patterns to explain scientific phenomena or to design solutions. Explain how factors or conditions impact stability and change in objects, organisms, and systems. Content Observe the sun setting and begin to connect how Earth's rotation causes the apparent motion of the sun across the sky. Connect how shadows change position and shape throughout the day. Water cycles can move plastics and waste from land into the ocean and other bodies of water. Matter cycles through Earth's system and can be moved from one place to another. Certain types of rock can hold oil and natural gas. Conservation can reduce the environmental impact of using natural resources. Assessment Topics: Energy is everywhere and can be observed in cycles, patterns, and systems. Recognition of patterns among the sun, Earth, and Moon system and their effects.	Scientific Investigation and Reasoning	 Scientific Investigation & Reasoning Analyze data by identifying any significant features, patterns, or sources of error. Develop explanations and propose solutions supported by data and models. Explain the relationship between the structure and function of objects, organisms, and systems. Content Sort animals by color, size, body covering, & identify basic parts of animals Describe how animals meet their needs with specific animal structures. The student is expected to research his/her own animal, the habitat it lives in, & the physical characteristics of the animal. Assessment Topics: Organisms undergo similar life processes and have structures and behaviors that help them survive within their environments.

Eagle Mountain-Saginaw ISD 2024-25 **Assessment Topics:** Matter has measurable physical properties that determine how matter is identified, classified, changed, and used. The student knows the nature of forces and the pattern s of their interactions. How is this mixture different from its
 What happens to make the shoes light • How can we impact the environment How does crawling help baby sea **Fundamental** parts? in Texas? turtles in Texas? Questions How does this rocket lift off the • How can animals live safely near the • How do Shadows move? ground? road in Texas? • Take your student on a walk • Take a trip to the zoo to observe Cook with your student. • Ask your student to draw a picture Talk about how the of a toaster. Ask them to label around your neighborhood. animals & their habitats. Identify and record the energy transformations properties of individual ingredients compare to that occur when toasting a examples of organisms and Suggestions for the properties of the final piece of bread. their ecosystems. Have **Parental**

your student list or draw

abiotic and biotic factors

and label them. For example, air, water, butterfly, flower.

product.

Involvement/

Support