Second Grade Parent Guide - Science

	1st Grading Period	2nd Grading Period	3rd Grading Period	4th Grading Period
TOPICS	**Matter** **Force and Motion**	**Sound and Volume** **Patterns in the Sky**	**Earth's Resources** **Plants**	**Plants and Animals** **Organisms and Environments**
FocusTEKS	2.6ABC, 2.7AB	2.8ABD, 2.9AB, 2.10BC	2.10ABC, 2.11AB, 2.13ABCD	2.12ABC, 2.13 ABCD
Topic Focus	**Scientific Investigation & Reasoning** • Use scientific practices to plan and conduce investigations • Evaluate a design or object using criteria to determine if it works as intended. **Content** • Identify properties necessary to understand how matter changes. • Identify how properties change to understand that physical properties can be changed. • Investigate how objects can change shape when they push on it. • Explore how the strength of a push or pull change an object's motion. **Assessment Topic** • Classify matter by observable physical properties. • Conduct a descriptive investigation to describe how physical properties can be changed.	**Scientific Investigation & Reasoning** • Students will practice science inquiry skills such as making predictions, collecting data, drawing conclusions, and hands-on investigations. **Content** • Observe how sound makes sand on top of a model drum vibrate. Sound causes vibrations. • Differ objects produce different levels of sound. • Sound can travel through vibrations. • Sunlight heats water • Weather information including severe weather. **Assessment Topic:** • Levels of sound. • Explain how objects push on each other and may change shape when they touch or collide.	**Scientific Investigation & Reasoning** • Students will develop and use models to represent phenomena, objects, and processes. **Content** • Investigate how water and wind move Earth's materials • Water and wind can affect Earth's land. • Students learn how to limit human impact on resources. • Students learn about plants and how they connect how bees are attracted to the flowers of plants. **Assessment Topic:** • Describe how wind and water move soil and rock particles • Measure record and graph weather information. • Severe weather such as a hurricane, tornado, or flood.	**Scientific Investigation & Reasoning** • Identify patterns to describe phenomena. **Content** • Explore how animal structures enable them to survive • Life cycles – butterfly and frog • What physical characteristics of environments support plants in an ecosystem? • Explain how plants depend on wind or water to move seeds. • Identify parts of a food chain and their interdependency. **Assessment Topic:** • Manmade and natural resources. • Limiting human impact on Earth materials • Organism structures and how they help them survive in their environment.
Anchoring Phenomena	• How do the properties of chocolate change? • Dow does construction change the land?	• Why is the siren the loudest sound? • How is the weather changing?	• How did the lighthouse rock get its shape? • How does being part of a hive help a bee survive?	• How does the prickly pear cactus help the Texas desert ecosystem?

SAVVAS Experience Texas Science is your students' online resource. It is available in their EMS ISD (SSO) Single Sign On §112.4

Suggestions for Parental Involvement/ Support	• As you are preparing dinner ask you student how the processes in your kitchen change the properties. Cooking, cutting, mixing…	• Have students create a T chart and sort sounds. Place loud sounds in one column and quiet sounds in the opposite column.	• Take a trip to the zoo to observe animals and their habitats. • Plant an herb garden at home.	• Start a rock collection. • Go on a hike and talk about how the things you see depend on one another for survival. How does each thing fit into a food chain?