

GSE Science 4th Grade Pacing Guide

These are bundles of core ideas from the Georgia Standards of Excellence for Fourth Grade related to an anchoring phenomenon.

This document is part of a framework that includes lessons and resources.

Instructional	Weather and Moon	Stars, Planets, and Moon	Forecasting the Weather	Role of Organisms and	Light and Sound	Force and Motion
Segment:	Phases	,	8	Flow of Energy		
Estimated Time	4 week intro and then All Year	7 weeks	7 weeks	7 weeks	4 weeks	7 weeks
	 Patterns Cause and Effect Systems and System Models What is the International Space Station? International Space 	 Patterns Systems and System Models Scale, Proportion, and Quantity Where is the edge of the Solar System? SpaceX CRS-12 Launches to the ISS 	 Patterns Energy and Matter System and System Models What is Weather like in Space? NOAA's GOES-16 Satellite Sends 1st Images from Space 	 Energy and Matter Structure and Function Eating on the Space Station Dessert in Space 	 Energy and Matter Gazing at Earth's Light Show Light Language – look at picture of a reflection in water 	 Energy and Matter Cause and Effect Small Rube Goldberg Machines Dream of a world without machines - activity
Core Ideas	 Station Cloud formation Weather Instruments Moon phases 	 Technological advances for space Stars Planets Moon Phases Earth's orbit and tilt Light refraction 	 States of water Water cycle Weather instruments Weather maps Cloud types Weather and climate 	 Ecosystems Food chains/ webs Changes impacting ecosystems Scarcity, extinction, overabundance 	 Opaque, transparent, translucent Reflection Refraction Strength and speed of sound vibration Communication device 	Balanced and unbalanced forces Gravitational force Simple machines
Science and Engineering Practices	 Asking questions Analyzing and interpreting data Constructing explanations Obtaining, evaluating, and communicating Developing and using models 	 Asking questions Developing and using models Constructing explanations Engaging in argument from evidence Obtaining, evaluating, and communicating 	 Ask questions Analyzing and interpreting data Constructing explanations Obtaining, evaluating, and communicating Developing and using models Planning and carrying out investigations 	 Asking questions and defining problems Developing and using models Constructing explanations and designing solutions Obtaining, evaluating, and communicating 	 Asking questions Developing and using models Planning and carrying out investigations Designing solutions Obtaining, evaluating, and communicating 	 Asking questions and defining problems Constructing an argument from evidence Developing and using models Analyzing and interpreting data Obtaining, evaluating, and communication
GSE	S4E2b; S4E4a, c	S4E1a, b, c, d; S4E2a, b, c; S4P1c	S4E3 a, b; S4E4 a, b, c, d	S4L1 a, b, c, d	S4P1 a, b, c; S4P2 a, b	S4P3 a, b, c