GSE Science 4th Grade Curriculum Map 2020-2021
These are bundles of core ideas from the Georgia Standards of Excellence for Fourth Grade related to an

anchoring phenomenon.

Instructional Segment:	Water Cycle and Forecasting the Weather	Stars and Planets	Earth and the Moon	Role of Organisms and Flow of Energy	Sound	Light	Forces and Motion
Estimated Time	9 weeks	5 weeks	4 weeks	4 weeks	5 weeks	4 weeks	5 weeks
Crosscutting Concepts	◆ Patterns◆ Energy and Matter	 Patterns Systems and System Models Scale, Proportion, and Quantity 	 Patterns Cause and Effect Scale, Proportion, and Quantity Systems and System Models 	 Energy and Matter Structure and Function 	• Energy and Matter	• Energy and Matter	■ Energy and Matter ● Cause and Effect
Anchoring Phenomenon	What is Weather like in Space? NOAA's GOES-16 Satellite Sends 1st Images from Space	Where is the edge of the Solar System? Space X CRS-12 Launches to the ISS	● Seeing the Moon During the Day ● Total Solar Eclipse	Listing on the Space Station Dessert in Space	 Singer shatters glass with his voice. Breaking Glass with Sound Visualizing vibrations using guitar strings 	Gazing at harth's Light Show Light Language look at picture of a reflection in water	• Small Rube Cioldberg Machines • Dream of a world without machines - activity
Core Ideas	Water cycle Weather	 Technological advances for space Stars Planets 	 Earth's orbit and tilt Light refraction 	 Ecosystems Food chains/ webs Changes impacting ecosystems Scarcity, extinction, overabundance 	 Strength and speed of sound vibration Communication device 	 Opaque, transparent, translucent Reflection Refraction 	 Balanced and unbalanced forces Gravitational force Simple machines
Science and Engineering Practices	 Analyzing and interpreting data 	 Developing and using models 	Developing and using models Constructing explanations	Asking questions and defining problems Developing and using models Constructing	 Asking questions Developing and using models Planning and carrying out investigations 	 Asking questions Developing and using models Planning and carrying out investigations 	 Asking questions and defining problems Constructing an argument from evidence

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	 Obtaining, evaluating, and communicating Developing and using models Planning and carrying out investigations 	 Engaging in argument from evidence Obtaining, evaluating, and communicating 	Engaging in argument from evidence Obtaining, evaluating, and communicating	explanations and designing solutions Obtaining, evaluating, and communicating	 Designing solutions Obtaining, evaluating, and communicating 	communicating	 Developing and using models Analyzing and interpreting data Obtaining, evaluating, and communication
GSE	S4E3a,b; S4E4a, b, c, d	S4E1a, b, c, d	\$4£2a, b, c	S4L1 a, b, c, d	S4P2a, b	S4P1a, b, c	S4P3a, b, c