

Main Criteria: Georgia Standards of Excellence
Secondary Criteria: Elementary Science Grade 4 v24

Subject: Science

Grade: 4

Correlation Options: Show Correlated

Georgia Standards of Excellence
Science

Grade: 4 - Adopted: 2016

STRAND/TOPIC **Earth and Space Science**

STANDARD / DESCRIPTION	S4E1.	Obtain, evaluate, and communicate information to compare and contrast the physical attributes of stars and planets.
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ELEMENT	S4E1.a.	Ask questions to compare and contrast technological advances that have changed the amount and type of information on distant objects in the sky.
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04.01 Physical Properties of Minerals

05.01 Rotation and Revolution

05.02 Stars

STRAND/TOPIC **Earth and Space Science**

STANDARD / DESCRIPTION	S4E2.	Obtain, evaluate, and communicate information to model the effects of the position and motion of the Earth and the moon in relation to the sun as observed from the Earth.
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ELEMENT	S4E2.a.	Develop a model to support an explanation of why the length of day and night change throughout the year.
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05.01 Rotation and Revolution

05.05 Earth's Movement: Discussion-Based Assessment

ELEMENT	S4E2.b.	Develop a model based on observations to describe the repeating pattern of the phases of the moon (new, crescent, quarter, gibbous, and full).
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05.03 The Moon

05.05 Earth's Movement: Discussion-Based Assessment

ELEMENT	S4E2.c.	Construct an explanation of how the Earth's orbit, with its consistent tilt, affects seasonal changes.
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05.01 Rotation and Revolution

05.02 Stars

05.05 Earth's Movement: Discussion-Based Assessment

STRAND/TOPIC **Physical Science**

STANDARD / DESCRIPTION	S4P1.	Obtain, evaluate, and communicate information about the nature of light and how light interacts with objects.
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ELEMENT	S4P1.c.	Plan and carry out an investigation utilizing everyday materials to explore examples of when light is refracted.
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02.01 Light Energy

02.05 Energy: Science Skills

STRAND/TOPIC **Physical Science**

STANDARD / DESCRIPTION	S4P2.	Obtain, evaluate, and communicate information about how sound is produced and changed and how sound and/or light can be used to communicate.
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ELEMENT	S4P2.a.	Plan and carry out an investigation utilizing everyday objects to produce sound and predict the effects of changing the strength or speed of vibrations. <u>Elementary Science Grade 4 v24</u> 02.03 Sound Energy 02.05 Energy: Science Skills
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ELEMENT	S4P2.b.	Design and construct a device to communicate across a distance using light and/or sound. <u>Elementary Science Grade 4 v24</u> 02.03 Sound Energy
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STRAND/TOPIC **Life Science**

STANDARD / DESCRIPTION	S4L1.	Obtain, evaluate, and communicate information about the roles of organisms and the flow of energy within an ecosystem.
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ELEMENT	S4L1.a.	Develop a model to describe the roles of producers, consumers, and decomposers in a community. <u>Elementary Science Grade 4 v24</u> 08.01 Food Energy 08.02 Producers and Consumers 08.05 The Environment: Science Skills
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ELEMENT	S4L1.b.	Develop simple models to illustrate the flow of energy through a food web/food chain beginning with sunlight and including producers, consumers, and decomposers. <u>Elementary Science Grade 4 v24</u> 08.02 Producers and Consumers 08.05 The Environment: Science Skills
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ELEMENT	S4L1.d.	Use printed and digital data to develop a model illustrating and describing changes to the flow of energy in an ecosystem when plants or animals become scarce, extinct or over-abundant. <u>Elementary Science Grade 4 v24</u> 08.01 Food Energy 08.02 Producers and Consumers 08.03 Impacts on the Environment 08.05 The Environment: Science Skills
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