

3rd Grade Science Guide

First Nine Weeks

Cells, Flow of Matter and Energy, Heredity

0307.1.1 Identify specific parts of a plant and describe their function

0307.3.1 Identify the basic needs of plants and animals

0307.3.2 Recognize that animals obtain their food by eating plants and other animals

0307.4.1 Select an illustration that shows how an organism changes as it develops

0307.4.2 Distinguish between characteristics that are transmitted from parents to offspring and those that are not

0307. INQ.1 Select an investigation that could be used to answer a specific question

0307. T/E.1 Select a tool, technology, or invention that was used to solve a human problem

0307. T/E.2 Recognize the connection between a scientific advance and the development of a new tool or technology

Interdependence, Biodiversity & Change

0307.2.1 Distinguish between living and non-living things

0307.2.2 Determine how plants and animals compete for resources such as food, space, water, air, and shelter

0307.5.1 Investigate an organism's characteristics and evaluate how these features enable it to survive in a particular environment

0307.5.2 Investigate populations of different organisms and classify them as thriving, threatened, endangered, or extinct

0307.5.3 Match the organism with evidence of its prior existence

0307. INQ.1 Select an investigation that could be used to answer a specific question

0307. T/E.1 Select a tool, technology, or invention that was used to solve a human problem

0307. T/E.2 Recognize the connection between a scientific advance and the development of a new tool or technology

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Second Nine Weeks

The Universe, The Earth, The Atmosphere

0307.6.1 Identify the major components of the solar system (i.e., sun, planets and moons)

0307.7.1 Classify landforms and bodies of water according to their geological features and identify them on a map

0307.7.2 Describe how rocks can be classified according to their physical characteristics

0307.7.3 Identify an object as natural or man-made

0307.7.4 Determine methods for conserving natural resources

0307.8.1 Choose the correct tool for measuring a particular atmospheric condition.

0307.8.2 Match major cloud types with specific atmospheric conditions

0307. INQ.1 Select an investigation that could be used to answer a specific question

0307. T/E.1 Select a tool, technology, or invention that was used to solve a human problem

0307. T/E.2 Recognize the connection between a scientific advance and the development of a new tool or technology

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Third Nine Weeks

Matter and Energy

0307.9.1 Describe a substance in terms of its physical properties

0307.9.2 Identify methods for separating different types of mixtures

0307.10.1 Use an illustration to identify various sources of heat energy

0307.10.2 Classify materials according to their ability to conduct heat

0307. INQ.1 Select an investigation that could be used to answer a specific question

0307. T/E.1 Select a tool, technology, or invention that was used to solve a human problem

0307. T/E.2 Recognize the connection between a scientific advance and the development of a new tool or technology

Motion, Forces in Nature

0307.11.1 Identify how the direction of a moving object is changed by an applied force

0307.11.2 Demonstrate how changing the mass affects a balanced system

0307.11.3 Distinguish between pitch and volume

0307.11.4 Identify how sounds with different pitch and volume are produced

0307.12.1 Recognize that magnets can move objects without touching them

0307.12.2 Identify objects that are attracted to magnets

0307. INQ.1 Select an investigation that could be used to answer a specific question

0307. T/E.1 Select a tool, technology, or invention that was used to solve a human problem

0307. T/E.2 Recognize the connection between a scientific advance and the development of a new tool or technology