Fifth Grade
Science Grade Level Content Expectations

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FIFTH SCIENCE

Science Processes *Inquiry Process*

S.IP.M.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.

S.IP.05.11 Generate scientific questions based on observations, investigations, and research.

FIFTH GRADE SCIENCE

Science Processes *Inquiry Process*

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FIFTH GRADE SCIENCE

Science Processes *Inquiry Process*

S.IP.M.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.

S.IP.05.12 Design and conduct scientific investigations.

FIFTH GRADE SCIENCE

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Science Processes *Inquiry Process*

S.IP.M.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.

S.IP.05.13 Use tools and equipment (spring scales, stop watches, meter sticks and tapes, models, hand lens) appropriate to scientific investigations.

FIFTH GRADE SCIENCE

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FIFTH GRADE SCIENCE

Science Processes *Inquiry Process*

S.IP.M.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.

S.IP.05.14 Use metric measurement devices in an investigation.

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FIFTH GRADE SCIENCE

Science Processes *Inquiry Process*

S.IP.M.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.

S.IP.05.15 Construct charts and graphs from data and observations.

FIFTH GRADE SCIENCE

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FIFTH GRADE SCIENCE

Science Processes *Inquiry Process*

S.IP.M.1 Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation.

S.IP.05.16 Identify patterns in data.

FIFTH GRADE SCIENCE

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FIFTH GRADE SCIENCE

Science Processes *Inquiry Analysis and Communication*

S.IA.M.1 Inquiry includes an analysis and presentation of findings that lead to future questions, research, and investigations.

S.IA.05.11 Analyze information from data tables and graphs to answer scientific questions.

FIFTH GRADE SCIENCE

Science Processes *Inquiry Analysis and Communication*

S.IA.M.1 Inquiry includes an analysis and presentation of findings that lead to future questions, research, and investigations.

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FIFTH GRADE SCIENCE

Science Processes *Inquiry Analysis and Communication*

S.IA.M.1 Inquiry includes an analysis and presentation of findings that lead to future questions, research, and investigations.

S.IA.05.12 Evaluate data, claims, and personal knowledge through collaborative science discourse.

FIFTH GRADE SCIENCE

Science Processes *Inquiry Analysis and Communication*

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Science Processes *Inquiry Analysis and Communication*

S.IA.M.1 Inquiry includes an analysis and presentation of findings that lead to future questions, research, and investigations.

S.IA.05.13 Communicate and defend findings of observations and investigations using evidence.

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Science Processes *Inquiry Analysis and Communication*

S.IA.M.1 Inquiry includes an analysis and presentation of findings that lead to future questions, research, and investigations.

S.IA.05.14 Draw conclusions from sets of data from multiple trials of a scientific investigation.

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FIFTH GRADE SCIENCE

Science Processes *Reflection and Social Implications*

S.RS.M.1 Reflecting on knowledge is the application of scientific knowledge to new and different situations. Reflecting on knowledge requires careful analysis of evidence that guides decision-making and the application of science throughout history and within society.

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S.RS.05.16 Design solutions to problems using technology.

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Science Processes ***Reflection and Social Implications***

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S.RS.05.17 Describe the effect humans and other organisms have on the balance in the natural world.

FIFTH GRADE SCIENCE

Science Processes ***Reflection and Social Implications***

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S.RS.05.19 Describe how science and technology have advanced because of the contributions of many people throughout history and across cultures.

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FIFTH GRADE SCIENCE

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Physical Science *Forces and Motion*

P.FM.M.2 Force Interactions- Some forces between objects act when the objects are in direct contact (touching), such as friction and air resistance, or when they are not in direct contact (not touching), such as magnetic force, electrical force, and gravitational force.

P.FM.05.21 Distinguish between contact forces and non-contact forces.

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Life Science *Organization of Living Things*

L.OL.M.4 Animal Systems- Multicellular organisms may have specialized systems that perform functions, which serve the needs of organisms.

L.OL.05.41 Identify the general purpose of selected animal systems (digestive, circulatory, respiratory, skeletal, muscular, nervous, excretory, and reproductive).

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L.OL.05.42 Explain how animal systems (digestive, circulatory, respiratory, skeletal, muscular, nervous, excretory, and reproductive) work together to perform selected activities.

FIFTH GRADE SCIENCE

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FIFTH GRADE SCIENCE

Life Science *Heredity*

L.HE.M.1 Inherited and Acquired Traits - The characteristics of organisms are influenced by heredity and environment. For some characteristics, inheritance is more important; for other characteristics, interactions with the environment are more important.

L.HE.05.11 Explain that the traits of an individual are influenced by both the environment and the genetics of the individual.

FIFTH GRADE SCIENCE

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Life Science *Evolution*

L.EV.M.1 Species Adaptation and Survival- Species with certain traits are more likely than others to survive and have offspring in particular environments. When an environment changes, the advantage or disadvantage of the species' characteristics can change. Extinction of a species occurs when the environment changes and the characteristics of a species are insufficient to allow survival.

L.EV.05.11 Explain how behavioral characteristics (adaptation, instinct, learning, habit) of animals help them to survive in their environment.

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L.EV.05.14 Analyze the relationship of environmental change and catastrophic events (volcanic eruption, floods, asteroid impacts, tsunami) to species extinction.

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Life Science *Evolution*

L.EV.M.2 Relationships Among Organisms- Similarities among organisms are found in anatomical features, which can be used to infer the degree of relatedness among organisms. In classifying organisms, biologists consider details of internal and external structures to be more important than behavior or general appearance.

L.EV.05.21 Relate degree of similarity in anatomical features to the classification of contemporary organisms.

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FIFTH GRADE SCIENCE

Earth Science *Earth Systems*

E.ES.M.6 Seasons- Seasons result from annual variations in the intensity of sunlight and length of day due to the tilt of the axis of the Earth relative to the plane of its yearly orbit around the sun.

E.ES.05.61 Demonstrate and explain seasons using a model.

FIFTH GRADE SCIENCE

Earth Science *Earth Systems*

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Earth Science *Earth Systems*

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Earth Science *Earth Systems*

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Earth Science *Earth Systems*

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E.ES.05.62 Explain how the revolution of the Earth around the sun defines a year.

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Earth Science *Earth Systems*

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Earth Science *Earth Systems*

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FIFTH GRADE SCIENCE

Earth Science *Earth in Space and Time*

E.ST.M.1 Solar System- The sun is the central and largest body in our solar system. Earth is the third planet from the sun in a system that includes other planets and their moons, as well as smaller objects, such as asteroids and comets.

E.ST.05.11 Design a model of the solar system that shows the relative order and scale of the planets, dwarf planets, comets, and asteroids to the sun.

FIFTH GRADE SCIENCE

Earth Science *Earth in Space and Time*

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Earth Science *Earth in Space and Time*

E.ST.M.2 Solar System Motion- Gravity is the force that keeps most objects in the solar system in regular and predictable motion.

E.ST.05.21 Describe the motion of planets and moons in terms of rotation on axis and orbits due to gravity.

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Earth Science *Earth in Space and Time*

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Earth Science *Earth in Space and Time*

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E.ST.05.22 Explain the phases of the moon.

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Earth Science *Earth in Space and Time*

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Earth Science *Earth in Space and Time*

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Earth Science *Earth in Space and Time*

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E.ST.05.23 Explain the apparent motion of the stars (constellations) and the sun across the sky.

FIFTH GRADE SCIENCE

Earth Science *Earth in Space and Time*

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E.ST.05.24 Explain lunar and solar eclipses.

FIFTH GRADE SCIENCE

Earth Science *Earth in Space and Time*

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