

**Fourth Grade
Science Grade Level Content
Expectations**

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FOURTH SCIENCE

Science Processes *Inquiry Process*

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

S.IP.04.11 Make purposeful observation of the natural world using the appropriate senses.

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Science Processes *Inquiry Process*

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S.IP.04.13 Plan and conduct simple and fair investigations.

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S.IP.04.14 Manipulate simple tools that aid observation and data collection (for example: hand lens, balance, ruler, meter stick, measuring cup, thermometer, spring scale, stop watch/timer, graduated cylinder/beaker).

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

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Science Processes *Reflection and Social Implications*

S.RS.E.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.

S.RS.04.11 Demonstrate scientific concepts through various illustrations, performances, models, exhibits, and activities.

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FOURTH GRADE SCIENCE

Science Processes *Reflection and Social Implications*

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FOURTH GRADE SCIENCE

Physical Science *Energy*

P.EN.E.1 Forms of Energy- Heat, electricity, light, and sound are forms of energy.

P.EN.04.12 Identify heat and electricity as forms of energy.

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Physical Science *Energy*

P.EN.E.4 Energy and Temperature- Increasing the temperature of any substance requires the addition of energy.

P.EN.04.41 Demonstrate how temperature can be increased in a substance by adding energy.

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Physical Science *Energy*

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Physical Science *Energy*

P.EN.E.5 Electrical Circuits- Electrical circuits transfer electrical energy and produce magnetic fields.

P.EN.04.51 Demonstrate how electrical energy is transferred and changed through the use of a simple circuit.

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Physical Science *Energy*

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Physical Science *Energy*

P.EN.E.5 Electrical Circuits- Electrical circuits transfer electrical energy and produce magnetic fields.

P.EN.04.52 Demonstrate magnetic effects in a simple electric circuit.

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FOURTH GRADE SCIENCE

Physical Science *Properties of Matter*

P.PM.E.1 Physical Properties- All objects and substances have physical properties that can be measured.

P.PM.04.16 Measure the weight (spring scale) and mass (balances in grams or kilograms) of objects.

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P.PM.04.18 *Demonstrate the use of centimeter cubes poured into a container to estimate the container's capacity. This expectation was deleted. Expectation written like an activity.*

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FOURTH GRADE SCIENCE

Physical Science *Properties of Matter*

P.PM.E.2 States of Matter- Matter exists in several different states: solids, liquids, and gases. Each state of matter has unique physical properties. Gases are easily compressed but liquids and solids do not compress easily. Solids have their own particular shapes, but liquids and gases take the shape of the container.

P.PM.04.23 Compare and contrast the states (solids, liquids, gases) of matter.

FOURTH GRADE SCIENCE

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FOURTH GRADE SCIENCE

Physical Science *Properties of Matter*

P.PM.E.3 Magnets- Magnets can repel or attract other magnets. Magnets can also attract magnetic objects. Magnets can attract and repel at a distance.

P.PM.04.33 Demonstrate magnetic field by observing the patterns formed with iron filings using a variety of magnets.

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FOURTH GRADE SCIENCE

Physical Science *Properties of Matter*

P.PM.E.5 Conductive and Reflective Properties- Objects vary to the extent they absorb and reflect light energy and conduct heat and electricity.

P.PM.04.53 Identify objects that are good conductors or poor conductors of heat and electricity.

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FOURTH GRADE SCIENCE

Physical Science *Changes in Matter*

P.CM.E.1 Changes in State- Matter can be changed from one state (liquid, solid, gas) to another and then back again. Heating and cooling may cause changes in state.

P.CM.04.11 Explain how matter can change from one state (liquid, solid, gas) to another by heating and cooling.

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FOURTH GRADE SCIENCE

Life Science *Organization of Living Things*

L.OL.E.1 Life Requirements- Organisms have basic needs. Animals and plants need air, water, and food. Plants also require light. Plants and animals use food as a source of energy and as a source of building material for growth and repair.

L.OL.04.15 Determine that plants require air, water, light, and a source of energy and building material for growth and repair.

FOURTH GRADE SCIENCE

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Life Science *Organization of Living Things*

L.OL.E.1 Life Requirements- Organisms have basic needs. Animals and plants need air, water, and food. Plants also require light. Plants and animals use food as a source of energy and as a source of building material for growth and repair.

L.OL.04.16 Determine that animals require air, water, and a source of energy and building material for growth and repair.

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Life Science *Evolution*

L.EV.E.2 Survival- Individuals of the same kind differ in their characteristics, and sometimes the differences give individuals an advantage in surviving and reproducing.

L.EV.04.21 Identify individual differences (color, leg length, wing size, leaf shape) in organisms of the same kind.

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Life Science *Ecosystems*

L.EC.E.1 Interactions- Organisms interact in various ways including providing food and shelter to one another. Some interactions are helpful; others are harmful to the organism and other organisms.

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Earth Science *Earth in Space and Time*

E.ST.E.1 Characteristics of Objects in the Sky- Common objects in the sky have observable characteristics.

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