

**First Grade  
Science Grade Level Content  
Expectations**

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Level Content Expectations**

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## FIRST 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.01.11** Make purposeful observation of the natural world using the appropriate senses.

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**S.IP.01.14** Manipulate simple tools (for example: hand lens, pencils, rulers, thermometers, rain gauges, balances, non-standard objects for measurement) that aid observation and data collection.

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

**S.IA.01.12** Share ideas about science through purposeful conversation.

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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.

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### Physical Science *Properties of Matter*

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

**P.PM.01.11** Demonstrate the ability to sort objects according to observable attributes such as color, shape, size, and sinking or floating.

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**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.01.21** Demonstrate that water as a solid keeps its own shape (ice).

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**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.01.31** Identify materials that are attracted by magnets.

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**P.PM.01.32** Observe that like poles of a magnet repel and unlike poles of a magnet attract.

## FIRST 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.01.13 Identify the needs of animals.

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**L.OL.E.2 Life Cycles-** Plants and animals have life cycles. Both plants and animals begin life and develop into adults, reproduce, and eventually die. The details of this life cycle are different for different organisms.

**L.OL.01.21** Describe the life cycle of animals including the following stages: egg, young, adult; egg, larva, pupa, adult.

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**L.HE.01.11** Identify characteristics (for example: body coverings, beak shape, number of legs, body parts) that are passed on from parents to young.

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**E.ES.E.2 Weather- Weather changes from day to day and over the seasons.**

**E.ES.01.21** Compare daily changes in the weather related to temperature (cold, hot, warm, cool); cloud cover (clear, cloudy, partly cloudy, foggy) precipitation (rain, snow, hail, freezing rain); wind (breezy, windy, calm).

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