Scientific Process

Ist Grade Science

Standard I

- I.I can use the processes of scientific Investigation: framing questions, designing investigations, conducting investigations, collecting data, and drawing conclusions. Framing Questions
 - I.a _ can observe using my senses.
 - I.a □ I can create a hypothesis about what I observe.
 - I.a I can come up with a question that can lead to an Investigation.

Designing Investigations

- I.b \square I can think of reasons that support my ideas.
- I.b I can identify ways to gather information to test my ideas.
- I.b □ I can design fair tests.

Conducting Investigations

- I.c I can observe.
- I.c □ I can manipulate.
- I.c I can measure.

Collecting Data

- I.d I can decide what data to collect.
- I.d I can decide how to organize the data.
- I.d I can decide how to record the data.
- I.d 🗆 I can decide how to manipulate the data. 💠

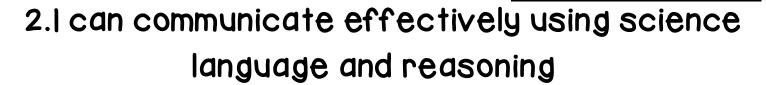
Drawing Conclusions

- I.e □ I can analyze data.
- I.e I can make conclusions from the data or evidence gathered.
- I e. □ I can identify limitations or conclusions.
- I.e □ I can identify future questions to investigate.

Scientific

Communication and Knowledge

Ist Grade Science Standard I



- 2.a □ I can develop social interactions skills with my peers.
- 2.b □ I can share ideas with peers.
- 2.c I can connect ideas with reasons or evidence.
- 2.d I can use multiple methods to communicate reasons and evidence such as verbal communication, charts, and draphs.

3. I can understand the nature of science.

- 3.a I can understand that ideas are supported by reasons.
- 3.b I can understand that ideas in science are limited by what can be observed, measured, and verified.
- 3.c I can understand that differences in conclusions can be settled through additional observations and investigations..
- 3.d I can understand that communication of ideas in science is important for helping to check the reasons for ideas.

Earth and Space

Ist Grade Science

Standard 2

I. I can investigate the natural world including rock, soil, and water.

- I.a I can observe, compare, describe, and sort components of soil by size, texture, and color.
- I.b I can identify and describe a variety of natural sources of water, including streams, lakes, and oceans.
- I.c I can gather evidence about the uses of rocks, soil, and water.

2. I can observe and describe changes and appearance of the sun and moon during daylight.

- 2.a I can observe the sun at different times during the day and report observations to peers.
- 2.b I can observe and chart the moon when it is visible during the day.



3. I can compare and contrast seasonal weather

- 3.a I can identify characteristics of the seasons of the year.
- 3.b I can identify characteristics of weather such as types of precipitation, sunny, windy, foggy, and cloudy.
- 3.c I can observe and record weather Information with each season.

Physical Science

Ist Grade Science

Standard 3

I.I can analyze changes in the movement of non-living things.

- I.a I can describe, classify, and communicate observations about the motion of objects. For example: straight, zig zag, circular, curved, back-and-forth, and fast or slow.
- I.b I can compare and contrast the movement of objects using drawing, graphs, and numbers.

I.c - I can explain how a push or pull can affect how an object moves.

I can analyze objects and record their properties.

- 2.a I can sort, classify, and chart objects by observable properties. For example: size, shape, color, and texture.
- 2.b I can predict measurable properties such as weight, temperature, and whether objects sink or float; test and record data.
- 2.c I can predict, identify, and describe changes in matter when heated, cooled, or mixed with water.

Life Science

Ist Grade Science



- I. I can communicate observations about the similarities and differences between offspring and between populations.
- I.a I can communicate observations about plants and animals, including humans and how they resemble their parents.
- I.b I can analyze the individual similarities and differences within and across larger groups.
- 2. I can understand that living things change and depend upon their environment to satisfy their basic needs.
- 2.a I can make observations about living things and their environment using the five senses.
- 2.b I can identify how natural earth materials such as food, water, air, light, and space help sustain plant and animal life.
- 2.c I can describe and model life cycles of living things.