

**Diocese of Fall River Grades 1-2 Science Learning Outcomes:** A school's curriculum will address these outcomes over this 2 year span. Science instruction will most often be integrated with other subjects, for example, learning about the characteristics of groups of living things (#11) while reading various books about animals. Art projects include the use of tools (like scissors) and the differences among materials. These activities along with the use of various manipulatives contribute to achieving age-appropriate technology/engineering standards. Emphasis is placed on encouraging children's natural curiosity while developing their scientific inquiry skills such as making observations and sharing them with others, asking questions, and finding patterns.

[The Diocesan Science Curriculum Guidelines and Preface are available at: [www.dfrcec.com](http://www.dfrcec.com)]

<i>[Additional outcomes from the Diocesan Health Curriculum Guidelines may also be included.]</i>
The student can (in words and/or in pictures):
1. Describe the sun as a source of heat and light and as necessary for living things
2. Demonstrate/illustrate that light can pass through some objects and is blocked by others causing a shadow
3. Describe the effects of the sun's light on objects such as warming, color change/fading, melting
4. Describe the weather (including temperature, wind and precipitation.)
5. Describe/illustrate how the weather changes from day to day and from one season to the next.
6. Describe the earth's surface as including rocks, soil, water and living things.
7. Recognize the repeating patterns of day/night, the seasons and the 4 major phases of the moon.
8. Describe/illustrate all living things as growing, reproducing and needing food, air and water.
9. List ways that an organism's habitat meets its basic needs.
10. Describe/illustrate changes in a living thing during its life cycle.
11. Identify the characteristics that living things grouped together share (for example, fur-mammals, birds-feathers, scales-fish)
12. Compare how many living things closely resemble their parents
13. Identify things that help plants and animals live in their environment such as using their senses and/or having special characteristics.
14. Describe some of the changes plants and animals go through as the seasons change
15. Recognize fossils as the remains of living things that can tell us about the earth in the past
16. Predict how an object's motion will change if a force is applied
17. Distinguish between the 3 states of matter and describe a solid as having a definite shape, and liquids and gases as taking the shape of their containers
18. Use basic tools including a ruler, thermometer, magnifier and balance (commercial or self-made)