



## Kindergarten Science Curriculum

### K-12 Benchmarks

**Inquiry:** Students will become scientifically literate citizens who develop and apply the skills of scientific inquiry by ...

- ✓ solving problems by applying scientific/mathematical reasoning,
- ✓ safely using the tools of science through active, hand-on experiences,
- ✓ analyzing and synthesizing information, and
- ✓ communicating understanding of science concepts.

**Knowledge:** Experience the richness and excitement of knowing about and understanding the natural world.

**Apply:** Develop scientific habits of mind in order to apply scientific processes and principles to everyday aspects of life.

▲ = Indicator studied in Kindergarten and assessed on Grade 4 Kansas Science Assessment

| Standard: Physical Science  | Standard: Life Science   | Standard: Earth-Space Science   | Standard: Health Science  |
|---|--|---|---|
| <p><b>Inquiry:</b><br/>▲ Uses senses to observe, explore, identify and sort properties of matter.</p> <p>▲ Describe properties of matter orally and pictorially.</p> <p>Explore light energy.</p> <p>Investigate shadows.</p> | <p><b>Inquiry:</b><br/>▲ Observe basic characteristics of living things.</p> <p>Classify objects as living and non-living.</p>   | <p><b>Inquiry:</b><br/>▲ Observe and record daily weather conditions and moon observations.</p> <p>▲ Identify questions about our natural environment.</p>            | <p><b>Inquiry:</b><br/>Identify and share feelings in appropriate ways.</p> <p>▲ Classify food according to food groups.</p>                              |
| <p><b>Knowledge:</b><br/>▲ Compare and contrast objects that sink and objects that float.</p> <p>▲ Demonstrate that objects move when a force is applied to the object.</p>   | <p><b>Knowledge:</b><br/>▲ Recognize that living things grow and change.</p> <p>▲ Compare and contrast the differences in living things.</p>   | <p><b>Knowledge:</b><br/>▲ Understand that the sun and the moon have relative locations to the earth and movement can be observed.</p>                                | <p><b>Knowledge:</b><br/>Recognize and apply the basic fire, traffic, and recreation safety practices.</p>  |
| <p><b>Application:</b><br/>▲ Observe change in properties when forms of objects change. Communicate the importance of recycling.</p> <p>Practice responsible recycling habits.</p>  | <p><b>Application:</b><br/>▲ Observe that organisms live only in environments in which their needs can be met.</p> <p>▲ For a specific animal or plant, list the living thing's needs and set up a plan to care for the living thing. (example: classroom pet)</p> | <p><b>Application:</b><br/>Make decisions based on weather.<br/>Example: appropriate clothing.</p> <p>▲ Develop pictorial representations to record observations.</p> | <p><b>Application:</b><br/>Practice personal hygiene habits required to maintain health.</p> <p>Identify and practice behaviors that prevent illness.</p> |