

Lesson 1 Standards

Science (NGSS - Next Generation Science Standards):

1. **K-PS3-1 (Energy)** – Use evidence to construct an explanation for how plants and animals depend on the environment to survive. Plants need sunlight, water, and air to live and grow.
2. **K-ESS3-1 (Earth's Systems)** – Use and share observations of local weather conditions to describe patterns over time.
3. **1-LS1-1 (Structure and Function)** – Use materials to design and build a structure that will reduce the warming effect of sunlight on an area.
4. **3-LS1-1 (Structure and Function)** – Develop models to describe the movement of matter among plants, animals, decomposers, and the environment.
5. **3-ESS3-1 (Earth's Systems)** – Human activities can affect the environment in various ways, including the conservation of resources and plant life.

Language Arts (Common Core State Standards - CCSS for ELA):

1. **CCSS.ELA-LITERACY.SL.K.1, SL.1.1, SL.2.1** – Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.
2. **CCSS.ELA-LITERACY.SL.4.1, SL.5.1** – Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 4 and 5 topics and texts, building on others' ideas and expressing their own clearly.
3. **CCSS.ELA-LITERACY.SL.K-5.5** – Add drawings or other visual displays to descriptions when appropriate to clarify ideas, thoughts, and feelings.

Mathematics (CCSS for Math):

1. **CCSS.MATH.CONTENT.K.MD.A.1** – Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.
2. **CCSS.MATH.CONTENT.3.MD.B.4** – Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object.

Social Emotional Learning (SEL):

- **Self-awareness and self-management** – This involves understanding one’s emotions, thoughts, and behaviors. It includes skills to manage stress, self-motivation, and setting personal goals.
- **Social awareness** – This is about recognizing and understanding the emotions and perspectives of others, especially in the context of environmental interactions and empathy with different species or ecosystems.