

Grade 2 Science Standards and Benchmarks

Standard 1: Students will understand atmospheric processes and the water cycle

Level 1 (PS-2)

Benchmarks:

- 1.2 Knows that water can be a liquid or a solid and can be made to change from one form to the other, but the amount of water stays the same

Standard 2: Students will understand Earth's composition and structure

Benchmarks:

- 2.1 Knows that Earth materials consist of solid rocks, soils, liquid water, and the gases of the atmosphere

Standard 4: Students will understand the principles of heredity and related concepts

Benchmarks:

- 4.1. Knows that plants and animals closely resemble their parents
- 4.2. Knows that differences exist among individuals of the same kind of plant or animal

Standard 5: Students will understand the structure and function of cells and organisms

Benchmarks:

- 5.1 Knows the basic needs of plants and animals (e.g., air, water, nutrients, light or food, shelter)

Standard 6: Students will understand relationships among organisms and their physical environment

Benchmarks:

- 6.1 Knows that plants and animals need certain resources for energy and growth (e.g., food, water, light, air)**

** Cross –curricular with SOCIAL STUDIES

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Standard 8: Students will understand the structure and properties of matter Benchmarks:

- 8.2 Knows that things can be done to materials to change some of their properties (e.g., heating, freezing, mixing, cutting, dissolving, bending), but not all materials respond the same way to what is done to them

Standard 11: Students will understand the nature of scientific knowledge Benchmarks:

- 11.1 Knows that scientific investigations generally work the same way in different places and normally produce results that can be duplicated

Standard 12: Students will understand the nature of scientific inquiry Benchmarks:

- 12.1 Knows that learning can come from careful observations and simple experiments
- 12.2 Knows that tools (e.g., thermometers, magnifiers, rulers, balances) can be used to gather information and extend the senses

Standard 13: Students will understand the scientific enterprise Benchmarks:

- 13.1 Knows that in science it is helpful to work with a team and share findings with others

Grade 2 Science Standards and Benchmarks

Science Units in ISKL Melawati

| Grade | Earth and Space Sciences | Life Sciences | Physical Sciences | |
|--------------|---------------------------------|--|--------------------------|---------------|
| Prep R & J | | | | SENSES |
| Prep S | | Characteristics and needs of Living Things | Water | |
| Grade 1 | Weather | Organisms | Solids and liquids | |
| Grade 2 | SOILS | Life cycle of the butterfly | Changes | |
| Grade 3 | Land and water | Plant growth | | |
| Grade 4 | Earth Structure | | Motion and design | |
| Grade 5 | Earth in Space | | Electrical Circuits | |