

PS Science Standards and Benchmarks

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

Level 1 (PS-2)

Benchmarks:

- 1.1 Knows that short-term weather conditions (e.g., temperature, rain, snow) can change daily, and weather patterns change over the season
- 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

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)
- 6.2 Knows that living things are found almost everywhere in the world and that distinct environments support the life of different types of plants and animals

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

Benchmarks:

- 8.1 Knows that different objects are made up of many different types of materials (e.g., cloth, paper, wood, metal) and have many different observable properties (e.g., color, size, shape, weight)

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

PS 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	