

Seattle Public Schools Science Standards

Organisms

(Science & Technology for Children)

Grade 1

LIFE
SCIENCE

EARL #1 The student understands and uses scientific concepts and principles.		
Component	Benchmarks	Lesson #s
1.1 – Use properties to identify, describe, and categorize substances, materials, and objects, and use characteristics to categorize living things.	<p><i>Basis of biological diversity</i></p> <ul style="list-style-type: none"> compare and contrast characteristics of organisms observe and describe changes over time in organisms describe the differences between plants and animals observe and describe the structures of a variety of living things and their needs. 	All lessons
1.2 – Recognize the components, structure, and organization of systems and the interconnections within and among them.	<p><i>Structure and organizations of living systems</i></p> <ul style="list-style-type: none"> observe the parts of living things and their function (e.g., fins vs. legs) 	All lessons
	<p><i>Molecular basis of heredity</i></p> <ul style="list-style-type: none"> describe the life cycles of plants and animals, and recognize similarities between parent and offspring 	10 – 16
	<p><i>Human biology</i></p> <ul style="list-style-type: none"> recognize that the human body has many parts with different functions 	16
1.3 – Understand how interactions within and among systems cause changes in matter and energy.	<p><i>Life processes and the flow of matter and energy</i></p> <ul style="list-style-type: none"> recognize that animals derive energy from food 	All lessons
	<p><i>Interdependence of life</i></p> <ul style="list-style-type: none"> recognize that all organisms, including humans, have senses necessary for survival 	All lessons
	<p><i>Environmental and resource issues</i></p> <ul style="list-style-type: none"> recognize that the needs of an organism are met by its environment 	All lessons
EARL #2 The student understands the skills and processes of science and technology.		
2.1 – Develop the abilities necessary to do scientific inquiry.	<p><i>Questioning</i></p> <ul style="list-style-type: none"> ask questions about objects, organisms, and events in the environment 	All lessons
	<p><i>Evidence and explanation</i></p> <ul style="list-style-type: none"> use data (observations) to construct reasonable explanations 	All lessons
	<p><i>Communication</i></p> <ul style="list-style-type: none"> record and report observations through oral language, numbers, pictures, and sentences 	All lessons

SCIENCE
SKILLS/
PROCESSES

SCIENTIFIC
THINKING

EARL #3 The student understands the nature and contexts of science and technology.

3.1 – Understand the nature of scientific inquiry

Intellectual honesty

- begin to understand that all scientific observations should be reported accurately even when they contradict expectations

Dealing with inconsistencies

- observe and discuss why similar investigations may not produce similar results

All lessons

All lessons