Seattle Public Schools Science Standards

Fabric

(FOSS)

Kindergarten

PHYSICAL SCIENCE	EARL #1 The student understands and uses scientific concepts and principles.			
	Component	Benchmarks	Lesson #s	
SCIENCE SKILLS/ PROCESSES	1.1 – Use the properties to identify, describe, and categorize substances, materials, and objects.	 <i>Properties of substances</i> observe and describe properties of materials use properties to sort and classify materials 	1.1 – 2.1, 2.4	
	1.2 – Recognize the components, structure, and organization of systems and	 <i>System</i> identify how parts are put together to make a whole 	1.4 – 1.6	
	the interconnections within and among them.	 <i>Structure of matter</i> know that objects and materials can be made of small parts 	1.4 – 1.6	
		 Physical and chemical change understand that objects and materials can undergo physical changes (e.g., cutting, tearing, weaving) and chemical changes (e.g., dyeing fabric, and using soap to remove stains) 	1.3 – 1.6, 2.2, 2.3	
	EARL #2 The student understands the skills and processes of science and technology.			
	2.1 – Develop the abilities necessary to do scientific inquiry.	 <i>Questioning</i> ask questions about objects, organisms, and events in the environment 	All lessons	
		 Designing and conducting investigations plan and conduct simple investigations, using appropriate tools, measures, and safety rules 	2.1 - 2.3	
		 <i>Evidence and explanation</i> use data (observations) to construct explanations 	2.1 – 2.4	
		 <i>Modeling</i> model systems, events, or processes by representing them with concrete objects 	1.5, 1.6, 2.2, 2.3	
		 <i>Communication</i> record and report observations through oral language, numbers, pictures, and words 	All lessons	
	2.2 – Apply science knowledge and skills to solve problems or meet challenges.	 <i>Identifying problems</i> begin to identify problems found in familiar contexts in which science and technology can be or have been used to design solutions (e.g., how to remove stains, color fabric) 	2.1 – 2.4	

SCIENTIFIC THINKING

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

3.1 – Understand the nature	Dealing with inconsistencies	2.1, 2.2
of scientific inquiry	• begin to observe and discuss why similar	
	investigations may not produce similar results	
3.2 – Know that science and	All peoples contribute to science and technology	All lessons
technology are human	• begin to understand how science and technology	
endeavors, interrelated to	are or have been practiced by people	
each other, to society and to	Relationship of science and technology	1.5, 1.6,
the workplace.	• recognize that people have invented tools for	2.2, 2.3
	everyday life and for scientific investigations (e.g.	
	cotton gins, spinning wheels, looms, sewing	
	machines, manufactured fabrics)	
	Careers and occupations using science,	1.5, 1.6
	mathematics, and technology	2.1 - 2.4
	• begin to identify how science, mathematics, and	
	technology are used in the workplace	