

Domain / Standard	PAWS 4th Grade Science Blueprint Benchmarks	# of Items Aligning Skill & Benchmark	Items Per Branch	# of Items / Benchmark	PAWS Emphasis
SKILLS: 1.1 Observe and Question 1.2 Design and Conduct a Scientific Investigation 1.3 Organize and Represent Data 1.4 Draw Conclusions and Make Connections					
Concepts and Processes					
Life Science			16		
4.1.1	<u>Characteristics of Organisms</u> : Students describe observable characteristics of living things, including structures that serve specific functions and everyday behaviors.	I.1: 0-2 I.2: 1-2 I.3: 0-1 I.4: 0-1		5-6	32%
4.1.2	<u>Life Cycles of Organisms</u> : Students sequence life cycles of living things, and recognize that plants and animals resemble their parents.	I.1: 0-1 I.2: 1-2 I.3: 0-1 I.4: 1-2		5-6	
4.1.3	<u>Organisms and Their Environments</u> : Students show connections between living things, their basic needs, and the environments.	I.1: 0-1 I.2: 1-2 I.3: 0-1 I.4: 0-1		4-5	
Earth and Space Science			16		
4.1.4	<u>Properties of Earth Materials</u> : Students investigate water, air, rocks, and soils to compare basic properties of earth materials.	I.1: 0-1 I.2: 0-1 I.3: 0-1 I.4: 1-2		4-5	32%
4.1.5	<u>Objects in the Sky</u> : Students describe observable objects in the sky and their patterns of movement.	I.1: 0-2 I.2: 0-1 I.3: 0-1 I.4: 1-2		5-6	
4.1.6	<u>Changes in Earth and Sky</u> : Students describe observable changes in earth and sky, including rapid and gradual changes to the earth's surface, and daily and seasonal changes in the weather.	I.1: 0-1 I.2: 1-2 I.3: 1-2 I.4: 1-2		5-6	

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Concepts and Processes					
Physical Science			18		
4.1.7	<u>Properties of Objects</u> : Students classify objects by properties that can be observed, measured, and recorded, including color, shape, size, weight, volume, texture, and temperature.	1.1: 0-1 1.2: 1-2 1.3: 0-1 1.4: 0-1		4-5	36%
4.1.8	<u>Changes in States of Matter</u> : Students demonstrate that the processes of heating and cooling can change matter from one state to another.	1.1: 1-2 1.2: 0-1 1.3: 0-1 1.4: 1-2		4-5	
4.1.9	<u>Physical Phenomena</u> : Students investigate physical phenomena commonly encountered in daily life, including light, heat, electricity, sound, and magnetism.	1.1: 0-1 1.2: 1-2 1.3: 0-1 1.4: 1-2		4-5	
4.1.10	<u>Position and Motion of Objects</u> : Students demonstrate that pushing and pulling can change the position and motion of objects.	1.1: 0-1 1.2: 0-1 1.3: 0-1 1.4: 0-1		4-5	
Science as Inquiry					
4.2.1	Students research answers to science questions and present findings through appropriate means.	Not Assessed			
4.2.2	Students use the inquiry process to conduct simple scientific investigations: 1) Collect and organize data; 2) Use data to construct simple graphs, charts, diagrams, and/or model; 3) Draw conclusions and accurately communicate results, making connections to daily life; 4) Pose or identify questions and make predictions; and 5) Conduct investigations to answer questions and check predictions.	Assessed with Concepts & Processes			
4.2.3	Students identify and use appropriate scientific equipment.				
4.2.4	Students properly use safety equipment and recognize hazards and safety symbols while practicing standard safety procedures.				
			50	50	100%