Pre-kindergarten Ages 3 and 4

Early Scientific Inquiry			
Learning Progression	24 to 36 months	3 to 4 years	4 to 5 years
Strand A: Early learning exp	periences will support childr	en to apply scientific practice	es.
Questioning and Defining	S.36.1 Ask simple	S.48.1 Ask more detailed	S.60.1 Define a problem
Problems	questions related to	questions including the	to be solved. Including
	things observed through	relationship between two	materials and limitations
	the senses ("what" and	things or cause and effect	to be considered (e.g.,
	"why")	relationships	"We need to figure out
			how to reach that shelf,
			but we aren't allowed to
			stand on the chairs.
Investigating	S.36.2 Manipulate	S.48.2 Intentionally vary	S.60.2 Engage in
	materials and comment	actions in order to	collaborative
	on the impact of own	observe the effect of	investigations to describe
	actions.	these actions on	phenomena or to explore
		materials.	cause and effect
			relationships
			S.60.3 Gather data by
			drawing, counting or
			otherwise documenting
			observations.
Using Evidence	S.36.3 Provide personal	S.48.3 Cite examples to	S.60.4 Give evidence
	reasons or evidence for	support their ideas (e.g.,	from observations or
	decisions or opinions	"I think the plant will die	investigations
	(e.g., "I made this picture	because when I forgot to	S.60.5 Begin to
	green because my mom	water my plant it died.")	distinguish evidence from
	likes green.		opinion

Early Scientific Inquiry					
Learning Progression	4 to 5 years				
Strand B: Early learning ex	Strand B: Early learning experiences will support children to engage in the process of engineering.				
Design Cycle	s.36.4 Gather information to help determine if something has been designed by humans	s.48.4 Identify a problem and, with adult assistance design a solution (e.g., device or process) to address that problem	S.60.6 Identify a problem and, with adult assistance, design a solution, test and refine design elements		

Early Scientific Inquiry				
Learning Progression	24 to 36 months	3 to 4 years	4 to 5 years	
Strand C: Early learning experiences will support children to understand patterns, process and relationships of living things				
Unity and Diversity of Life	S.36.5 Observe features of plants and animals and explore function of features between and across groups S.48.5 Compare and contrast basic features of living things (e.g., body parts ant their uses) between and across groupings S.60.7 Group a living things ba features, provide evidence to support groupings S.60.8 Demonstranding			

		s.48.6 Recognize changes in living things over their lifespan bu observing similarities and differences between babies and adults	living things grow and change through predictable stages (e.g., birth, growth, reproduction, death)
Living Things and Their Interactions with the environment and each other	S.36.6 Observe how a variety of living things obtain food as a source of energy for surviving	<u>S.48.7</u> Explore how animals depend upon the environment for food, water, and shelter	S.60.9 Provide examples of how animals depend on plants and other animals for food

Early Scientific inquiry					
Learning Progression	24 to 36 months	3 to 4 years	4 to 5 years		
Strand D: Early learning ex	Strand D: Early learning experiences will support children to understand physical sciences				
Energy Force and Motion	S.36.7 Observe different	S.48.8 Investigate how	S.60.10 Make predictions		
	ways objects move (e.g.,	objects' speed and	and conduct simple		
	roll, bounce, spin, slide)	direction can be varied	experiments to change		
	and what happens when		direction, speed and		
	they interact (collide)		distance objects move		
			S.60.11 Determine cause		
			and effect of		
			push/pull/collision that		
			make objects, start, stop		
			and change direction		
Matter and its Properties	S.36.8 Observe and	S.48.9 Compare and	S.60.12 Evaluate the		
	describe attributes of	contrast attributes of	appropriateness of a		
	materials that are related	common materials	material for a given		
	to their function (e.g.,	related to their function	purpose based upon its		
	flexibility, transparency,	(e.g., flexibility,	properties		
	strength)	transparency, strength)	S.60.13 Observe how		
			heating and cooling cause		
			changes to properties of		
			materials (e.g., ice melts		
			when we bring it inside.		
			Plastic becomes brittle		
			when it is left outside in		
			the cold)		

Early Scientific Inquiry				
Learning Progression	earning Progression 24 to 36 months 3 to 4 years 4 to 5 years			
Strand E: Early learning ex	periences will support childre	en to understand features of	the earth.	
Earth's features and	\$.36.9 Describe common	S.48.10 Observe, record,	S.60.14 Give examples of	
effects of weather and	features f the earth (e.g.,	and note patterns	ways in which weather	
water	sky, land, and water) and	regarding weather and	variables (hot/cold	
	what is found there (e.g.,	the effects on the	temperatures, amount	
	birds, fish, stars)	immediate environment	and intensity of	
		(e.g., Rain over a period	precipitation, wind	

		of days causes flooding. Sunny days cause the flower bed to dry out.) S.48.11 Investigate how water interacts with other earth materials	speed) affect us and/or cause changes to earth's features (e.g., The stream has greater water flow after snow melts.)
		(e.g., sand, dirt, pebbles)	
Earth and Human Activity	S.24.10 Give examples of	S.48.12 Investigate how	S.60.15 Explore how
	natural resources that	humans use design	humans' use of natural
	humans use to survive	solutions to adapt natural	resources impacts the
	(e.g., food, water)	resources to meet basic	environment (e.g., If we
		needs (e.g., cut trees to	catch all the salmon, this
		build houses, make	can no longer be a food
		applesauce out of apples	source. Cutting down
			trees can cause erosion.)