

Content Area: Mathematics	Mathematics	Grade Level: Preschool
	R14 Big Six Learning Drivers Colla	boration
	Citizenship	Critical Thinking Curiousity
Unit Titles	Length of Unit/Co	ontact Hours
Unit Titles Foundations for Learning in a Mathematical Community	Length of Unit/Co	ontact Hours



Strands	Grade Level Expectations (Progress Reporting)
Number Sense,	Quantities can be represented and counted.
Properties, and Operations	
Patterns, Functions, and Algebraic Structures	Expectations for this standard are integrated into the other standards at this grade level.
Data Analysis, Statistics, and Probability	Expectations for this standard are integrated into the other standards at this grade level.
Shape, Dimension, and Geometric Relationships	 Shapes can be observed in the world and described in relation to one another Measurement is used to compare objects

Unit Title	Foundations for Learning in a Mathematical Community	Length of Unit	6-8 weeks

Inquiry Questions (Engaging & Debatable)	 How do we engage preschoolers in rich discussions about mathematics in large groups, small groups, and individually? How do we provide experiences for preschoolers to compare, connect, and respond to in our daily routines and in mathematical problems?
Standards	PK Standards: Mathematics: PK.MP.1 Make sense of problems and persevere in solving them, PK.MP.2 Reason quantitatively, PK.MP.3 Construct viable arguments, justify reasoning and explain the reasoning of others, PK.MP.4 Model in mathematics, PK.MP.5 Use appropriate tools strategically PK.MP.6 Attend to precision, PK.MP.7 Look for and make use of structure in the environment and in routines PK.MP.8 Look for and express regularity in repeated reasoning
Strands & Concepts	 School is a place where people work, talk, and play together. You can learn many new things about your world at school. You can talk to show your thinking. A mathematically rich environment stimulates children's thinking
Key Vocabulary	classroom, community, centers, calendar, rules, greetings, names, number(s), objects, combined, how many, calendar

Unit Title	Foundations for Learning in a Mathematical Community	Length of Unit	6-8 weeks

Critical Content: My students will Know	Key Skills: My students will be able to (Do)	
 how to name objects what makes a pattern a process for noticing differences ways to discuss math with partners ways to use manipulatives for thinking 	 with support, make sense of problems with support, start counting objects with support, organize objects organize manipulatives to show thinking reason with partners 	

Assessments:	PAF (Preschool Assessment Framework) Performance Standards: • COG 9 Understands and interacts within the classroom with adults and peers • P&S 3 Participates in teacher-led activities • P&S 7 Interacts cooperatively with peers
Teacher Resources:	 Region 14 Preschool Math Implementation Guide CT Preschool Curriculum Frameworks CT Preschool Assessment Frameworks Common Core State Mathematics Standards

Unit Title	Supporting Emergent Mathematicians	Length of Unit	Ongoing
Inquiry Questions (Engaging- Debatable):	 How do activities (e.g. singing songs & rhymes) help develop pattern and number relationships? How do we provide preschoolers with ample time to engage in problem solving? How do we provide preschoolers ample time to engage and inquire in mathematical conversations with peers and adults? How does learning about number relationships, in context, help us prepare to be better mathematicians? 		
Standards	PK Standards: Mathematics: Counting and Cardinality PK.CC.1 Associate quantities and the names of numbers with written rumber of objects in small groups without counting (subitizing), PK.Co. sequence, PK.CC.4 Count a set of objects to tell "how many" using one Compare two numbers (quantities) within ten Number and Operations PK.NBT.1 Compose and decompose numbers (ex. twelve is ten and two contained in other numbers (hierarchical inclusion: four is in five and Recognize that numbers can be combined and separated Measurement and Data PK.MD.1 Describe and compare measurable attributes PK.MD.2 Sort and Geometry PK.G.1 Recognize and describe shapes in the environment PK.G.2 Anal Combine shapes to make other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes other shapes PK.G.4 Describe the location and compare makes PK.G.4 Describe the location and pK	C.3 Know number name-to-one correspondence o) PK.NBT.2 Recognize five is one more than and classify objects by a syze and compare shap	nes and the count ce, PK.CC.5 e numbers are four) PK.NBT.3 ettributes
Strands & Concepts	Finding Patterns, Counting with One to One, Measuring, Sorting, Comp	paring and Contrasting	, Charting
Key Vocabulary	measure, shapes, object(s), first, last, middle, same, different, circles, s rhyme, balance, group, more, less, same, above, below, difference, equa	_	

Unit Title	Supporting Emergent Mathematicians	Length of Unit	Ongoing
------------	------------------------------------	----------------	---------

Critical Content: My students will Know	Key Skills: My students will be able to (Do)
 different ways to sort objects what a pattern is instruments that measure ways to compare and contrast the concept of first and last names of familiar shapes locations, directions and positions of objects 	 sort objects by one or more attributes recognize simple patterns create patterns demonstrate one to one correspondence while counting use common instruments to measure explore a whole and half of an object identify ordinal positions of objects (first and last) count by rote up to 20 identify and describe familiar shapes

Assessments:	 PAF Performance Standard: COG 3 Sorts objects COG 5 Compares and orders objects and events. COG 6 Relate number to quantity P&S 5 Uses words to express emotions or feelings
Teacher Resources:	 Region 14 Preschool Math Implementation Guide CT Preschool Curriculum Frameworks CT Preschool Assessment Frameworks Common Core State Mathematics Standards