



Lowell Public Schools

Pre-Kindergarten Massachusetts Curriculum Framework for Mathematics

TIMELINE:										
Common Core State Standards (Grade Pre-Kindergarten)	September	October	November	December	January	February	March	April	May	June
Counting and Cardinality - Domain										
<i>Know number names and the counting sequence.- Cluster Heading</i>										
MA.1. Listen to and say the names of numbers in meaningful contexts.	√	√	√	√	√	√				
MA.2. Recognize and name written numerals 0–10.	√	√							√	√
<i>Count to tell the number of objects.- Cluster Heading</i>										
MA.3. Understand the relationships between numerals and quantities up to ten.	√		√	√	√	√	√	√	√	√
<i>Compare numbers.- Cluster Heading</i>										
MA.4. Count many kinds of concrete objects and actions up to ten, using one-to-one correspondence, and accurately count as many as seven things in a scattered configuration.	√	√	√	√	√	√	√	√	√	√
MA.5. Use comparative language, such as <i>more/less than, equal to</i> , to compare and describe collections of objects.						√	√	√		
CC.6 Identify “first” and “last” related to order or position.						√	√	√		
Operations and Algebraic Thinking - Domain										
<i>Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.- Cluster Heading</i>										
MA.1. Use concrete objects to model real world addition (putting together) and subtraction (taking away) problems up through five.									√	√
CC.2 Duplicate and extend (e.g., What comes next?) simple patterns using concrete objects	√	√								



Lowell Public Schools
Pre-Kindergarten Massachusetts Curriculum Framework for Mathematics

TIMELINE:										
Common Core State Standards (Grade Pre-Kindergarten)	September	October	November	December	January	February	March	April	May	June
Measurement and Data - Domain										
Describe and compare measurable attributes.- Cluster Heading										
MA.1. Recognize the attributes of length, area, weight, and capacity of everyday objects using appropriate vocabulary (e.g., <i>long, short, tall, heavy, light, big, small, wide, narrow</i>).						√	√	√		
MA.2. Compare the attributes of length and weight for two objects, including longer/shorter, same length; heavier/lighter, same weight; holds more/less, holds the same amount.	√	√								
Classify objects and count the number of objects in each category. – Cluster Heading										
MA.3. Sort, categorize, and classify objects by more than one attribute.										
Work with money.- Cluster Heading										
MA.4. Recognize that certain objects are coins and that dollars and coins represent money.										
Geometry - Domain										
Identify and describe shapes (squares, circles, triangles, rectangles).- Cluster Heading										
MA.1. Identify relative positions of objects in space, and use appropriate language (e.g., <i>beside, inside, next to, close to, above, below, apart</i>).		√	√							
MA.2. Identify various two-dimensional shapes using appropriate language.		√	√							
Analyze, compare, create, and compose shapes.- Cluster Heading										
MA.3. Create and represent three-dimensional shapes (ball/sphere, square box/cube, tube/cylinder) using various manipulative materials (such as popsicle sticks, blocks, pipe cleaners, pattern blocks).			√							
CC.4 Create and build shapes from components (e.g., sticks and clay balls).			√							



Lowell Public Schools
Pre-Kindergarten Massachusetts Curriculum Framework for Mathematics

TIMELINE:										
Common Core State Standards (Grade Pre-Kindergarten)	September	October	November	December	January	February	March	April	May	June
<i>STANDARDS FOR MATHEMATICAL PRACTICE</i>										
1. Make sense of problems and persevere in solving them.	√	√	√	√	√	√	√	√	√	√
2. Reason abstractly and quantitatively			√	√	√				√	√
3. Construct viable arguments and critique the reasoning of others.	√	√	√	√						
4. Model with mathematics			√	√	√	√	√	√	√	√
5. Use appropriate tools strategically.	√	√					√	√		
6. Attend to precision.	√	√	√	√	√	√	√	√	√	√
7. Look for and make use of structure	√	√	√	√	√				√	√
8. Look for and express regularity in repeated reasoning.									√	√