**Grade: 3 Unit: 6 Geometry and Measurement**

Critical Area: Developing understanding of the structure of rectangular arrays and of area. Developing and analyzing two-dimensional shapes

Standards Addressed: CC.3.MD.1, CC.3.MD.2, CC.3.MD.4, CC.3.MD.5, CC.3.MD.6, CC.3.MD.7, CC.3.MD.8, CC.3.G.1, CC.3.G.2, and CC.3.NF.1, CC.3.NF.3

Focus Mathematical Practices:

* Model with mathematics;
* Use appropriate tools strategically;
* Make sense of problems and persevere in solving them;
* Reason abstractly and quantitatively;
* Look for and make use of structure;
* Look for and express regularity in repeated reasoning;
* Construct viable arguments and critique the reasoning of others;
* Attend to precision

**To Be Completed on or about: June 6th**

|  |  |  |
| --- | --- | --- |
| Prerequisites | Targets | Extensions |
|  | T 1.  Read, write and tell time to the nearest minute on a digital and analog clock  Decide when to use A.M and P.M when telling time  Use a number line to or analog clock to measure time intervals in minutes  Use a number line or analog clock to add or subtract time intervals to find start or end times  Solve problems involving the addition and subtraction of time intervals by using the strategy “Draw a Diagram” |  |
|  | T2.  Measure length to the nearest half and quarter inch  Use measurement data to make a line plot |  |
|  | T 3.  Estimate and measure liquid volume in liters comparing to the liter (more than a liter, less than a liter)  Estimate and measure mass in grams and kilograms deciding the appropriate measure (gram or kilogram) and comparing to the gram/kilogram (more than a gram/kilogram; less than a gram/kilogram)  Solve real world problems using four operations involving liquid volumes or masses |  |
|  | T 4.  Explore the perimeter of polygons by counting units on grid paper  Estimate and measure perimeter of polygons by using inch and centimeter rulers  Find the unknown length of a side when given the perimeter  Explore perimeter as attributes of polygons  Solve real world problems involving perimeter |  |
|  | T. 5.  Recognize area as an attribute of a plane shape  Estimate and measure area of plane shapes by counting unit squares  Relate area to addition and multiplication using area models  Solve area problems by using the strategy “Find a Pattern”  Apply the Distributive Property to area models  Apply the Distributive Property to find the area of combined rectangles  Solve real world problems involving area |  |
|  | T. 6.  Compare areas of rectangles that have the same perimeter  Exhibit rectangles with the same area  Compare perimeters of rectangles with the same area  Exhibit rectangles with the same perimeter |  |
|  | T. 7  Identify and describe attributes of plane shapes  Understand that shapes in different categories share attributes  Understand that the shared attributes of shapes can define a larger category to which they belong  Describe angles of plane shapes  Classify plane shapes by using the strategy draw a diagram  Identify polygons by the number of sides  Describe polygons by the lines or line segments as intersecting, perpendicular or parallel  Describe, classify and compare quadrilaterals based on their sides and angles  Recognize rhombuses, rectangles and squares as examples of quadrilaterals  Draw quadrilaterals and draw quadrilaterals that do not belong to any of the subcategories of quadrilaterals |  |
|  | T.8  Describe and compare triangles based on the number of sides with equal length and by their angles |  |
|  | T. 9  Partition shapes into equal parts with equal areas  Express the area as a unit fraction of the whole |  |

**To Be Completed on or about: 35 days**