**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**

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| Prerequisites | Targets | Extensions |
|  | T 1. Read, write and tell time to the nearest minute on a digital and analog clockDecide when to use A.M and P.M when telling timeUse a number line to or analog clock to measure time intervals in minutesUse a number line or analog clock to add or subtract time intervals to find start or end timesSolve 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 inchUse 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 paperEstimate and measure perimeter of polygons by using inch and centimeter rulersFind the unknown length of a side when given the perimeterExplore perimeter as attributes of polygonsSolve real world problems involving perimeter  |  |
|  | T. 5. Recognize area as an attribute of a plane shapeEstimate and measure area of plane shapes by counting unit squaresRelate area to addition and multiplication using area modelsSolve area problems by using the strategy “Find a Pattern”Apply the Distributive Property to area modelsApply the Distributive Property to find the area of combined rectanglesSolve real world problems involving area |  |
|  | T. 6. Compare areas of rectangles that have the same perimeterExhibit rectangles with the same areaCompare perimeters of rectangles with the same areaExhibit rectangles with the same perimeter |  |
|  | T. 7Identify and describe attributes of plane shapesUnderstand that shapes in different categories share attributesUnderstand that the shared attributes of shapes can define a larger category to which they belongDescribe angles of plane shapesClassify plane shapes by using the strategy draw a diagramIdentify polygons by the number of sidesDescribe polygons by the lines or line segments as intersecting, perpendicular or parallelDescribe, classify and compare quadrilaterals based on their sides and anglesRecognize rhombuses, rectangles and squares as examples of quadrilateralsDraw quadrilaterals and draw quadrilaterals that do not belong to any of the subcategories of quadrilaterals |  |
|  | T.8Describe and compare triangles based on the number of sides with equal length and by their angles |  |
|  | T. 9Partition shapes into equal parts with equal areasExpress the area as a unit fraction of the whole |  |

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