Math Lesson

Lesson Title: Dog Yard – Area and Perimeter Grade: 3

Content Standard: 3MD.C – Geometric measurement: understand concepts of area and relate area to multiplication and to addition.
6. Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).
 	
7. Relate area to the operations of multiplication and addition.
 	
  a. Find the area of a rectangle with whole-number side lengths by tiling it and show that the area is the same as would be found by multiplying the side lengths.
 	
  b. Multiply side lengths to find areas of rectangle with whole-number side lengths.
 	
8. Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.

Materials: Dog Yard directions with cutouts, grid paper, glue, 5-step lesson paper
Shared Experience and procedure details: Student will create a yard for the dog on the grid paper. The yard cannot be the size of the entire grid. Student will cut out the dog, dog house, bone, and dog bowl. They will place each on the grid paper remembering to leave some space between the objects. Students will then draw a fence to create the dog's yard. Students will only use straight lines to create the yard. Students will then glue down the objects, and find the perimeter and area of the yard.
Possible Picture: Picture of grid, features included
Possible People Talk: bone, dog, bowl, house, yard, fence, perimeter, area, grid, sides,
Feature Talk: perimeter, area, add, multiply, square units, length, width
Possible Symbolic Representation: Equation to represent the area and perimeter
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