Sample Proficiency-Based Rubric for Geometry
Surface Area and Volume of Three-Dimensional Figures

(Adapted from Sarah Schuhl - Centennial High School)

	Beginning	Approaching	Meets	Exceeds	Masters
Identify, classify, model, sketch, and label representations of three-dimensional objects from nets and different perspectives H.2G.1	• Does not identify three-dimensional objects from nets • Does not identify three-dimensional objects from different perspectives • Does not demonstrate the ability to sketch and label three-dimensional objects as nets or in three-dimensional space	• Seldom identifies three-dimensional objects from nets • Infrequently identifies three-dimensional objects from different perspectives • Has yet to demonstrate the ability to sketch and label three-dimensional objects as nets or in three-dimensional space	• Identifies some three-dimensional objects from nets • Identifies three-dimensional objects from different perspectives in familiar situations. • Sketch and label three-dimensional objects as nets and/or in three-dimensional space in familiar situations.	• Identifies three-dimensional objects from nets • Identifies three-dimensional objects from different perspectives • Sketch and label three-dimensional objects as nets and in three-dimensional space	• Identifies three-dimensional objects from non-traditional nets. • Identifies complex three-dimensional objects from different perspectives • Sketch and label complex three-dimensional objects as nets and in three-dimensional space.
Identify and apply formulas for surface area of spheres; right solids, including rectangular prisms and pyramids; cones; and cylinders; and compositions thereof. Solve related context-based problems. H.2G.2	• Does not apply formulas correctly to find the surface area of: ○ spheres ○ right solids ▪ rectangular prisms ▪ pyramids ○ cones ○ cylinders ○ compositions • Does not solve related familiar context-based problems	• Inconsistently applies formulas correctly to find the surface area of: ○ spheres ○ right solids ▪ rectangular prisms ▪ pyramids ○ cones ○ cylinders ○ compositions • Minimally able to solve related familiar context-based problems	• Applies formulas for surface area of: ○ right solids ▪ rectangular prisms ▪ pyramids ○ cylinders Applies formulas when given dimensions for surface area of ○ spheres ○ cones ○ compositions • Solves related familiar context-based problems	• Applies formulas for surface area of: ○ spheres ○ right solids ▪ rectangular prisms ▪ pyramids ○ cones ○ cylinders ○ compositions • Consistently solves related context-based problems	• Finds surface area of: ○ spheres ○ right solids ▪ rectangular prisms ▪ pyramids ○ cones ○ cylinders ○ compositions when part of the formula is given and determines the missing areas needed • Solves related context-based problems in new and complex situations