**Lesson Plan Outline Geometry in Construction**

**Title:**

Surface Area of 3D Figures

**Objective(s):**

Students will create nets of 3D figures under given circumstances for area

**Learning Standard(s):**

[CCSS.MATH.CONTENT.HSG.MG.A.1](http://www.corestandards.org/Math/Content/HSG/MG/A/1/)Use geometric shapes, their measures, and their properties to describe objects (e.g., modeling a tree trunk or a human torso as a cylinder).

[CCSS.MATH.CONTENT.HSG.MG.A.3](http://www.corestandards.org/Math/Content/HSG/MG/A/3/)Apply geometric methods to solve design problems (e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems base

**Activities:**

The students will be given cardboard to create a 3D figure under given circumstances for dimensions and area.  Students will present their designs to the class.

Students will review algebra concepts related to geometry

**Materials:**

Cardboard

Cardboard Design Activity

Algebra Review Packet