Tamara Donaldson
August 15, 2007
SAHS 967-4522 Rm. 207
Tami.donaldson@albany.k12.or.us

Stick in a Box

State Standards: CIM Level Geometry

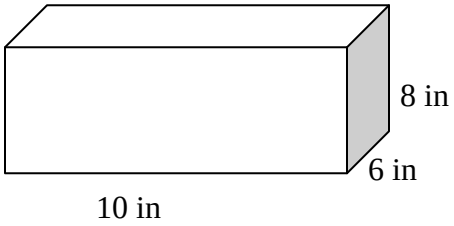
Grade Level: 9th – 10th

Core Math: Analyze and understand characteristics and properties of two and three dimensional geometric shapes and mathematical arguments about geometric relationships.

Area the task can be implemented: Stick in a box would be used after the unit on the Pythagorean Theorem, and prior to three dimensional objects.

Task:

Part 1: Can you put a 14 in. stick in a rectangular box that has length of 10 in, a width of 6 in, and a height of 8 in?



Part 2: If I gave you a rectangular box of unknown dimensions, how would you find the largest stick that can fit into the box?

Part 3: Organize your thoughts, diagrams, and pictures on the provided poster. Be sure to label steps and have enough explanation so your poster can stand alone.

Adapted from Discovering Geometry by Michael Serra