

## Unit 10 - 11 Challenge Project

**Objective:** Estimate as closely as possible the area and perimeter of the middle school/high school building of ASFM.

**Deliverable:** A neatly typed report that details your process and the evidence you have collected. This could be in the form of tables of data that you have collected, diagrams, paragraph explanations, mathematical calculations, etc. The summary paragraph should

**Notes:**

1. You may work as a group or two smaller groups if you wish. I encourage as much discussion as possible among your group(s).
2. This is supposed to be a challenging, self-driven project. Take time to consider your strategy before you start, and think outside the box. (What information could you get that might help you with the project?)
3. You will be given some dedicated class time to work on this. You may also use class periods where the rest of the class is working on a lesson – we will discuss this.

**Grading:** The project will be graded on the following rubric:

	4	3	2	1
Quality of estimates	Estimates for area and perimeter are very close to the actual values and based on solid measurements or assumptions. The math is correct.	Estimates for area and perimeter are close to the actual values and based on mostly good measurements. The math work has few errors.	Estimates for area and perimeter vary somewhat from actual values and may be based on sketchy measurements or errors in math work.	Estimates for area and perimeter are nowhere near actual values and are based on poor measurements, bad assumptions or incorrect math work.
Creativity / quality of strategy	The strategy used leads to a good approximation and is elegant in its approach.	The strategy used leads to a good approximation but is less elegant, or is an elegant route to a reasonable approximation.	The strategy used leads to a reasonable approximation.	The strategy used will not lead to a reasonable approximation.
Presentation	Report is well laid out, very easy to understand and has helpful diagrams and clear math work.	Report is clearly laid out with minor issues with clarity. Diagrams and math work are mostly clear.	Report has some issues with layout or clarity. Diagrams and math work are not always clear.	Report is difficult to understand. Diagrams and math work do not contribute to the report.

**Due date:** The project is due Friday, Mar 14.