



Project Math TRACK

PBL Lesson Plan Template

Pre-Lesson

	Grade Level: 12th	Teacher Name/School: Yvonne Sybliss-Lawrence Lee Central High School
	Standards Addressed:	<p>PS.SPID.1 Select and create an appropriate display, including box plots, for data that includes only real numbers. Use statistics appropriate to the shape of the data distribution to compare center and spread of two or more different data sets that include all real numbers.</p> <ul style="list-style-type: none"> • determine 5-number summary (minimum, Q1, median, Q3, maximum). • calculate range and IQR • calculate mean and standard deviation. • determine the best representation of center (mean or median) based on symmetry, outliers. • determine the best representation of spread (standard deviation or IQR) based on measures of center used.
g	Critical Questions to Consider:	<p><input type="checkbox"/> Is the problem relevant to content/standard(s) being taught? yes</p> <p><input type="checkbox"/> Will the problem incorporate multiple instructional and thinking processes? yes</p> <p><input type="checkbox"/> Can students solve this problem in multiple ways? yes</p> <p><input type="checkbox"/> Is the problem high-interest? Will it command student attention? Yes</p> <p><input type="checkbox"/> Will students develop their own ideas and reasoning skills? Yes</p>

Scenario: (no more than 500 words)

The heights of 9 students from the Probability & Statistics class were measured and recorded as shown below; 56, 58, 60, 62, 64, 66, 68, 70, 72.

Instructional Activities: (List in numeric order).

1. Draw a box plot to represent this information.
2. What is the median height?
3. What is the first quartile?
4. How tall was the tallest child?
5. What is the height of the shortest child?
6. Fifty percent of students are taller than 68 inches, True or False.
7. At least 75% of the students are taller than 60 inches, True or False.
8. 25 % of the students between 66 and 69 inches tall. True or False.

Student Reflection / Assessment Activity:

Students will consider a real world scenario similar to the one in the assignment and come up with their own problem and solution.