



Project Math TRACK

PBL Lesson Plan Template

Pre-Lesson

	Grade Level: 12th	Teacher Name/School: Yvonne Sybliss-Lawrence Lee Central High School
	Standards Addressed:	PS.SPCR.1 Describe events as subjects of a sample space and <ol style="list-style-type: none"> 1. Use Venn diagrams to represent intersections, and complements 2. Represent intersections, unions and complements using venn diagrams. 3. Relate intersections, unions, and complements to the words and, or, and not. 4. Shade two (and three for extension) part venn diagrams for subjects given in verbal and symbolic form of intersections, unions and complements.
g	Critical Questions to Consider:	<input type="checkbox"/> Is the problem relevant to content/standard(s) being taught? yes <input type="checkbox"/> Will the problem incorporate multiple instructional and thinking processes? yes <input type="checkbox"/> Can students solve this problem in multiple ways? yes <input type="checkbox"/> Is the problem high-interest? Will it command student attention? Yes <input type="checkbox"/> Will students develop their own ideas and reasoning skills? Yes

Scenario: (no more than 500 words)

In a school of 800 students the two main sports are football and basketball. 65 students played football, 10 did both, and 705 students played neither sports.

1. Draw a venn diagram to represent the above information.
2. Using the information from the venn diagram shade the following regions (use a venn diagram to represent each part of your answer)
 - (a) $F \cap B$
 - (b) $F \cup B$
 - (c) F'
 - (d) B'
 - (e) $F' \cap B'$
 - (f) $F \cap B'$
 - (g) $B \cap F'$
3. How many students play baseball?
4. How many students play football only?
5. How many students do not play baseball?

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.

