| Project Math TRACK PBL Lesson Plan Template |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Pre-Lesson |  |  |  |  |  |  |
| Grade Level: 12th |  |  | Teacher Name/School:Takaingofa Pasai Lee Central High School |  |  |  |
|  | Standards Addressed: |  | PS.SPCR. 4 Construct and interpret two-way frequency tables of data when two categories are associated with each object being classified.Use the two-way tables as a sample space to decide if events are independent and to approximate conditional probabilities. <br> - use the two-way table as a sample space to decide if events are independent or dependent. <br> - use the two-way table as a sample space to approximate conditional probabilities/proportions. |  |  |  |
| g | Critical Questions to Consider: |  | aIs the problem relevant to content/standard(s) being taught? yes $\square$ Will the problem incorporate multiple instructional and thinking processes? yes <br> $\square$ Can students solve this problem in multiple ways? yes Is the problem high-interest? Will it command student attention? Yes Will students develop their own ideas and reasoning skills? Yes |  |  |  |
| $\underline{\text { Scenario: (no more than } 500 \text { words) }}$ |  |  |  |  |  |  |
|  | EARS | 0-4 | 5-9 | 10-14 | 14+ | TOTALS |
|  | MALES | 12 | 6 | 17 | 21 | 56 |
|  | EMALES | 8 | 9 | 13 | 14 | 44 |
|  | OTALS | 20 | 15 | 30 | 35 | 100 |
| Instructional Activities: (List in numeric order). |  |  |  |  |  |  |
| 1.What is the probability of randomly selecting a female employee? <br> 2.Given that the employee is male, what is the probability that they have less than 4 years of experience? <br> 3.Given that the employee has between 10 and 14 years of experience, what is the probability that the employee is female? <br> 4. Given that the employee has more than 14 years of experience, what is the probability that the employee is male. <br> 5. What is the probability of randomly selecting an employee with less than 14 years of experience given that they are female? |  |  |  |  |  |  |

## 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.

