

FUNCTIONS LEARNING STATIONS PROJECT

Purpose:

The purpose of this 2.5-day, in-class project is twofold: (1) You will gain additional experiences with exploring linear functions (including lines of best fit) as they occur in the real world), and (2) your ability to apply the function concept to solving problems can be assessed and evaluated.

Process:

On the first two days of the project (Tuesday and Wednesday), the two teams will circulate among six learning stations (three stations per day). At each station, you will explore a linear function by hand, with a graphing calculator, or both. You will also be expected to answer questions and draw conclusions at each station. **Any of the three station problems that are not completed at the end of each day must be finished as a homework assignment, preferably done in Study Hall that same day.**

On the third and final day of the project (Thursday), you will compare final results to each learning station's questions and choose "best" solutions to be submitted for grades (you will probably need about 20-30 minutes for this final activity). The following rules apply:

- ◆ only one "version" per team from each learning station is to be submitted for grading
- ◆ the six solutions should be paper clipped together with a post-it note on the front page identifying the team members
- ◆ each team member must contribute either 1 or 2 solutions to the final product. The name of the person whose paper is being submitted for grading should be identified on the page.

Assessment:

The project will be scored on an 80-point scale (which will be converted to a percentage so that the project actually counts for 100 points) and will count in the "Projects" portion of this quarter's grades. The 80 points will be determined as follows:

60 points = 10 points maximum for each of the six learning centers. Scores will be based upon quality and accuracy of responses and clarity/neatness of work. All three members of your team will receive the same score in this area.

20 points = up to 20 points will be awarded to each student for participation and contributions to the team effort. This score will be determined from two sources: (1) You will be observed during problem solving over the three days, and notes will be taken on your skills at Problem Solving, Communicating, Reasoning and Proving, Connecting, and Representing Mathematics. (2) You will each rate one another's participation on the last day, providing input for one another's grades (though I will determine the final participation grade for each person).

Teacher's Role:

My role in this project is to set up the learning centers and to observe your work. I will not answer questions as to whether or not a team is on the "right track," etc. Your problem solving strategies, ability to work together, and accuracy are up to you. Good luck!