

TEACHER QUEST TAMPA BAY PROGRAM

ACTION PLAN

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Lesson Title: Data Analysis

Grade Level: 6th Grade

Subject Area: Advanced Math

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Summer Work Experience

My job duties at Nielsen revolve around Information Technology and Data Quality Improvement for Project Management, using Microsoft Enterprise Project Management Software. The Enterprise Project Management (EPM) system brings all the available management platforms under one system and is relatively new to Nielsen. My job is to analyze data that has been entered into the EPM from each of the project managers. I look for and identify inconsistencies and missing data that need to be updated so the process of project analysis, approval and implementation can run efficiently.

In some cases, once I find these missing items, I can correct them by updating the projects myself. In other cases, I generate notifications to be sent out to all team members to update specific data. In the emails I show where and what to update so the project members know exactly what and how to input their data.

My current work experience helps me understand how data is gathered and used at various levels to manage and report. Working on this project has helped me understand how data is used to improve operating efficiencies and take remedial action where appropriate. On the positive side, I will be able to highlight how using technology tools can effectively help manage productivity and improve the bottom-line of business.

In class my students will collect math data given from various measurements, including the "Success Maker" math lab and their Edline data. Students will generate an Excel spread sheet to help correlate and analyze data to show relationships between specific categories and also formulate conclusions and action plans to improve academic performance.

Lesson Plan

Objective

Students will perform data analysis, synthesize Success Maker Math Lab data and make correlations to increase their achievement and motivation.

Sunshine State Standards

Benchmark Number:	MA.6.A.3.6
Benchmark Description:	Construct and analyze <u>tables</u> , graphs, and <u>equations</u> to describe <u>linear functions</u> and other simple <u>relations</u> using both common language and algebraic notation.
Benchmark Number:	MA.6.S.6.1
Benchmark Description:	Determine the measures of <u>central tendency</u> (mean, <u>median</u> , and mode) and variability (range) for a given <u>set</u> of data.
Benchmark Number:	MA.6.S.6.2
Benchmark Description:	Select and analyze the measures of <u>central tendency</u> or variability to represent, describe, analyze, and/or summarize a data <u>set</u> for the purposes of answering questions appropriately.

Materials

Success Maker Lab (consisting of the Success Maker software on 14 computer stations), Microsoft Power Point (for presentation of data analysis), Microsoft Excel for data spreadsheet analysis and utilization of current curriculum and traditional classroom assessment data.

Instructional Procedures

Class time will be broken down into two parts: half will be lab time using Success Maker Math Lab software and the other half will be a traditional class setting using the current math curriculum. When class begins, there will always be a designated group that starts in the lab first. This lab is in the classroom area where the computers are set up. Students will log in with their student ID's and begin their 20 minute session. During this time the teacher will go over the previous day's assignments from the county curriculum and then present the next lesson for the day. This also takes 20 minutes and then the students switch from their classroom desks to the lab stations and visa versa. Transition time is 3 minutes.

Integration of Summer Work Experience/Follow-up Activities

In my work experience at The Nielson Company, I am working with a team of employees who have various projects that are in various stages of creation. Using Microsoft Enterprise Project

Management Software, the teams have to learn the new system and input their projects into the system. There are many parameters that involve cost: asset allocations from people to technology and "Toll Gates" (check points) along the way to check feasibility. Once a project is cleared, and it has all the proper "Toll Gates" and approvals, then it is set to launch on a given date that has been proposed. My job has been, thus far, to check over the input process of a team and to make sure all the data has been correctly entered into the system for all administrators to check. I would like to execute that type of management system by creating teams of students, and setting goals, objectives and timelines to meet academic requirements set by school district standards. The students would input data into an Excel spreadsheet and then compile the results to present in an informative Power Point presentation presented to the class, teachers and administration. There will be a grading rubric given to the students to grade each other, teachers and administration

Assessment Instrument

Utilization of the "Success Maker" math program to show achievement along with a presentation Power Point presentation to the class, teachers and School Administration as "in class" assessments such as data from traditional quizzes, tests and other grades that are posted on Edline and Grade Pro. Students will create an Excel spreadsheet from which they can compile the academic information they create. Then, collaborating with the Business Ed. Department and using Microsoft PowerPoint, the students will create a presentation using charts and graphs, which break the data down data to show correlations. This type of assignment helps the students asses their academic situation, helps expose strengths and weaknesses, instills goal making and "in class" individual competition to be the highest. It also helps the class as a whole compete against other classes to have higher average scores.

Comments

Additional incentives will be created by the facilitator create more desire for the students to achieve. Examples can range from: incentive parties, eating privileges in class, homework passes and recognitions from certificates posted in class. Students will also be highlighted on the school's morning announcements and in the school's newsletters.