

Arthur's First Grade



Microsoft Access Integration

Background:

The students were introduced to the anchored instruction program, Arthur's First Grade, and worked on the program independently for about a week. The students completed a worksheet designed in Microsoft Word to review the skills they learned on the program. The students were then introduced how to visually represent "helping others" shown in a spreadsheet and graphs designed in Microsoft Excel.

Colorado Model Content Standards:

Civics

Standard 4: Students understand how citizens exercise the roles, rights, and responsibilities of participation in civil life at all levels- local, state, and national.

Mathematics

Standard 2: Students use algebraic methods to explore, model, and describe patterns and functions involving numbers, shapes, data, and graphs in problem-solving situations and communicate the reasoning used in solving these problems.

Lesson Objectives:

-Students will know how and be able to explain how students are citizens in the classroom, school, community, and state.

-Students will be able to describe patterns and other relationships using tables, graphs, and open sentences.

Organizational Framework:

The Access database is designed to be the third lesson plan in the unit centered on Arthur's First Grade. The teacher will guide the lesson using the template designed in Access and enter the data given by the students into each field, similar to what was done in the lesson with the spreadsheet designed in Excel. The teacher will lead a whole class discussion using the Access database and entering the data obtained about "helping others" in the database. The teacher will then demonstrate how to do a search in the database looking for specific things. For example, the teacher could do a search demonstrating the

ability to categorize and sort and find all of the students in the class that had helped their friends that day.

Timeline and Procedure:

1. (5-10 minutes) The teacher will review helpful ways in which students can help others, including their friends, family, school, and community, and why helping others is important.
2. (5 minutes) The teacher will remind the students that they entered data into a spreadsheet the previous day and review the graphs with the students.
3. (15-20 minutes) The teacher will then present the database template done in Access and have the class quickly go through the database, and say whether they have helped their parents, sisters or brothers, school, community, or friends for the day. The teacher will enter each individual student's data in the spreadsheet.
4. (10 minutes) The teacher will demonstrate how to do a search within the database, being able to demonstrate different categories. For example, all of the students that helped Family (mom or dad, and brother or sister), or all of the students that helped their school, etc.

Technologies/Materials Needed:

The teacher will need to have access to Microsoft Access, as well as a computer and projector to present the program to the classroom.

Student Role:

Students need to be active participants in the classroom discussion about helping others and provide data to be entered into the Access database.

Teacher Role:

The teacher will need to be well prepared and have the database template designed beforehand so that entering data is a quick task. It is important that the teacher is well prepared and familiar with Microsoft Access, so that the students do not lose interest in the activity.

Evaluation:

The teacher will provide a review of the different ways that students can help out in the school, community, and home. Through the classroom discussion, the teacher will be able to assess how much the students have learned and understand, and provide more instruction if necessary. The teacher will be able to assess how well the students are able to sort and categorize by the searches that they request to see within the database.