

# **PowerPoint Presentation – Exploring Linear Relationships Lesson Plan**

## **Objectives**

To create a PowerPoint presentation that gives examples of linear relationships that students see in the world.

Michigan Benchmarks:

1. Describe, analyze and generalize patterns arising in a variety of contexts and express them in general terms
2. Represent and record patterns in a variety of ways including tables, charts, graphs, and translate between various representations.
3. Use patterns and their generalizations to make and justify inferences and predictions.

Objectives:

1. Students will be able to recognize patterns in everyday situations and be able to describe them verbally and symbolically.
2. Students will be able to use tables, charts and graphs to record patterns and change.
3. Students will be able to describe how one variable changes in relation to another.
4. Students will be able to use technology to construct tables, charts, and graphs.
5. Students will be able to use PowerPoint presentation to explain to their classmates how to create a coordinate graph.

## **Materials**

Handout – Project description and grading rubric

Handout – Storyboard (one per group)

Power Point software

At least one computer per group

Computer projection device to share completed projects

Digital cameras

Scanner

## **Procedure**

1. The project will be introduced to students.
2. Students will be divided into groups of 3-4 students. Based on a survey conducted prior to introducing project, it was determined that students possessed a strong understanding of Power Point and did not need any instruction on the software itself.
3. Students will work in groups to create a storyboard for their presentation. The storyboards will be collected and reviewed before students begin working in the computer lab.
4. Students will be given class time to create digital pictures that they want to include in their presentation.
5. Once the storyboards have been returned to students, they will be given class time to meet in groups to edit storyboards and make any final changes.
6. Students will then be given 2-3 class periods in the computer lab to create their presentations.
7. One class period will then be designated for presentations in the computer lab. Student groups will use the computer projection system to present their projects to the class.

## **Evaluation**

Evaluation of the project will be based on the grading rubric that was given with the project description.