



WAYNE STATE UNIVERSITY

STEM Day Lesson Plan

Title: Walk the Line

Subject Area: Mathematics

Learning Activity Description: Students will use motion detectors and graphing calculators to study linear relationships.

Lesson Activity Objective: To understand that the slope of a line is a constant rate of change.

Lesson Activity Outcomes: Students will be able to interpret the slope of a line.

Materials/Supplies Listed: Motion detectors and graphing calculators

Teacher Procedures: Students will work in groups and the teacher and the volunteers will facilitate the group activity.

Preparation Time for Learning Activity: 40 minutes

Room set-up: There will be a station for each group.

Group Strategies (example, group size, expected time for groups, etc.): Students will work in groups of 2 or 3.

Student Products/Artifacts/work pages: (See attached)

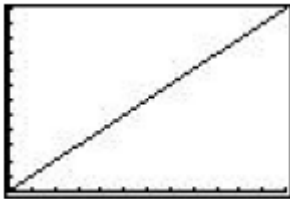
Assessment Criteria/Rubric: Whole group discussion at the end.

Closing/Transition to next activity: N/A

Walk the Line

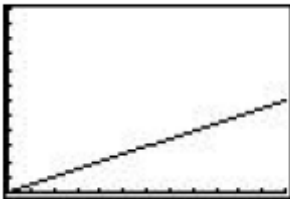
In this lab, you will be given a graph and you must try to walk in a manner so that the graph of your distance vs. time looks like the given graph.

Graph



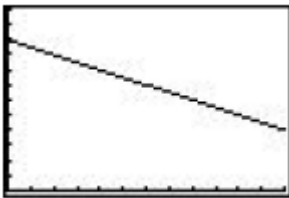
Description of the Walk

Graph



Description of the Walk

Graph



Description of the Walk
