LESSON PLAN OUTLINE

EDEC 262 - Media, Technology & Education Kevin Paquette



LEARNING GOAL: TO CALCULATE AND INTERPRET A SLOPE

GRADE LEVEL: GRADE 9 (SECONDARY III)

LEARNING OBJECTIVES:

- To understand the effect slope has on a line (e.g. how steep the line is), using Desmos* (student.desmos.com) by the end of the first class with little to no errors
- To determine the slope of a line correctly with 85% accuracy using the formula a=(y2-y1)/(x2-x1)
- To determine if lines are parallel, perpendicular, or neither (with respect to each other or a given line) using only the slope of the lines and the relationship that lines are perpendicular if their slopes are the negative reciprocals of each other with 85% accuracy

*There will be lines pre-loaded into the software using teacher.desmos.com, including activites (explained in the next section)

TYPES OF TECHNOLOGY USED:

Online graphing software (www.desmos.com, teacher.desmos.com, student.desmos.com)

ACTIVITIES: (DESMOS)

Line game where students have to fix the equations to collect stars

Altering pre-loaded lines to understand the implication of slope

LEARNING OUTCOMES:

Google form as a quiz asking students to determine if lines are perpendicular, parallel, or neither