# LESSON PLAN OUTLINE 

EDEC 262 - Media, Technology \& Education
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## 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 $a=(y 2-y 1) /(x 2-x 1)$
- 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

