

DAY 13

UNIT TEST

Performance Objectives Covered on Test:

- When the slope is explicitly given, students will be able to substitute in to the slope-intercept form of a line 3 out of 3 times.
- Given two ordered pairs that lie on the line, students will be able to recall the slope formula from memory and use it to calculate the slope of the line 9 out of 10 times.
- Given an equation in standard form, students will be able to convert it to slope-intercept form 9 out of 10 times.
- Given the equation of a line in slope-intercept, standard, or point-slope form, students will be able to recognize and/or solve for the slope of the line and recall that parallel lines have equal slopes 4 out of 5 times.
- Given the equation of a line in slope-intercept, standard, or point-slope form, students will be able to recognize and/or solve for the slope of the line and recall that perpendicular lines have opposite reciprocal slopes 4 out of 5 times.
- Given an equation in point-slope form, students will be able to identify the slope, or convert the equation to slope-intercept form and then identify the slope 4 out of 5 times.
- When the y-intercept is explicitly given, students will be able to substitute in to the slope-intercept form of a line 3 out of 3 times.
- Given the equation of a line in slope-intercept, standard or point-slope form, students will be able to recognize y-intercept from slope-intercept form or convert standard form or point-slope form to slope-intercept form 4 out of 5 times.

- Given a point that lies on the line and the slope of the line, students will be able to substitute the values appropriately into slope-intercept form and solve the resulting equation for the y-intercept 4 out of 5 times.
- Given the slope and the y-intercept, students will be able to substitute the values into slope-intercept form of the equation of a line 5 out of 5 times.

Resources or Materials Needed

Materials:

- ✓ Copy of the test for each student. (See Appendix AAA)
- ✓ Test answer key (See Appendix BBB)

Resources:

- ✓ Calculator for each student. (Even though they have been able to use the Desmos Scientific Calculator during class, the temptation for the students to cheat is not worth the risk because they would be typing into their phone.)
- ✓ Ruler for each student. (To complete a couple of the extra credit questions.)

Time: 45 minutes

Step 1: Pre-Instructional Activities: Take attendance and have students turn in their homework to ensure maximum time is spent on taking the quiz.

Step 2: Content Presentation: n/a.

Step 3: Learner Participation: Each student takes the test independently.

Step 4: Assessment: Unit Test and the test answer key.

Step 5: Follow-Through Activities: Go over the answers to the test the following class.