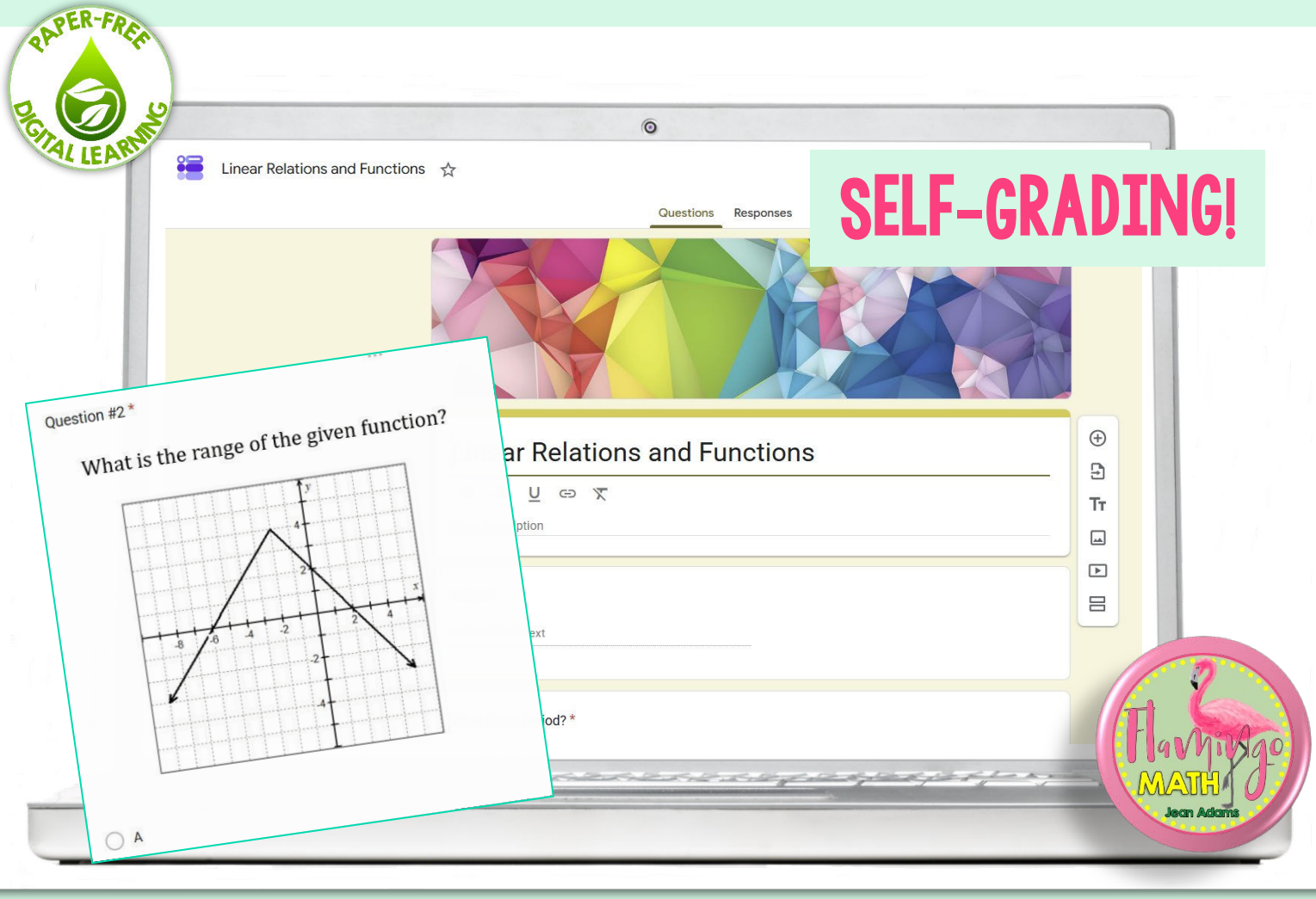
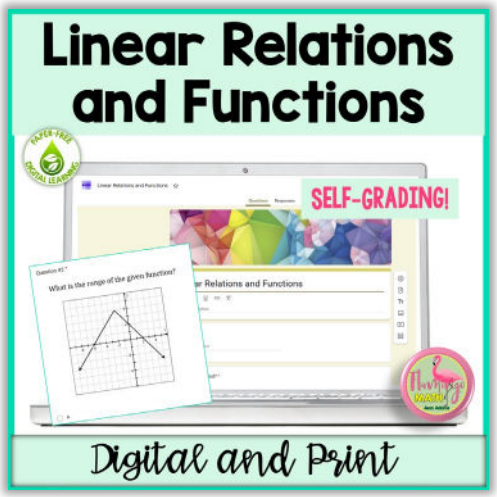
Linear Relations and Functions



Digital and Print



Linear Relations & Functions with Google Forms

Your Algebra 2 and PreCalculus students will have 15 multiple choice questions related to your unit on Linear Relations & Functions which can be used as a class assignment, a distance learning activity or as a review assignment.

KEY CONCEPTS/TOPICS:

1. Find the missing value given a relation which will result in no function.
2. Given an absolute value function graph, find range.
3. Write point-slope form given a slope and a point
4. Write standard form given a point and parallel to a line.
5. Given standard form of a line, rewrite for slope-intercept form.
6. Find x- and y-intercepts given standard form.
7. Given a point, write perpendicular equation for line passing through two points.
8. Find the domain of a rational function.
9. Given a table of velocity values, estimate average rate of change for an unknown time.
10. Find sum of two functions for a given x-value.
11. Given two tables for f and g find composition of a specific value.
12. Given a table with a missing y-value and the average rate of the function over an interval, find missing value.
13. Given two functions find the quotient, restrictions, and simplify.
14. Find the domain of the composition of two rational functions.
15. Solve a composition problem for a specific time, given a real-world application.

There is also a printable PDF version of the questions, if you need to have this option.

NOTE: You and your students must have a free Google account in order to access and interact with the activity. It is not necessary to use Google Classroom to use this resource.

GOOGLE FORMS™ are editable. This offers you flexibility to add, delete, or edit questions. You can also adjust the point value for each question to meet your needs.



Linear Relations

* Required

Name *

Your answer

What Class Period?

Choose

Question #1 * 1 point

Given the relation
$\{(8,3),(4,5),(7,6),(k,9)\}$
which value of k will result in the relation *not* being a function?

A

B

C

D

Question #11 * 1 point

Use the tables for $f(x)$ and $g(x)$ shown below to find $(g \circ f)(3)$.

x	−2	−1	0	1	2	3	4
$f(x)$	7	5	3	0	−1	2	4

	1	2	3	4
2	0	−1	1	3

0

B

2

D

Editable

Question #12 *

1 point

The table below gives values for the function $h(x)$. The average rate of change of $h(x)$ over the interval $0 \le x \le 4$ is 5. What is the missing value in the table?

x	0	1			
$h(x)$	6	3			

5

A

15

C

Question #13 *

1 point

Given the functions $f(x) = x^3 - 4x$ and $g(x) = x + 2$, find the simplified equation for the combined function $y = \frac{f(x)}{g(x)}$

$x($ $+2$ $x \neq$ 2

A

$(x-2)$ $\neq -2$

B

$\frac{x}{x+2};\ x \neq -2$

C

$\frac{x}{x-2};\ x \neq -2,\ 2$

D

Question #15 *

The height in miles of a weather balloon as a function of time, t, in minutes can be determined by the function: $h(t) = 0.175t$. The temperature in the atmosphere (°F) as a function of height, h in miles can be determined by the following function: perature when the balloon

72.4 °F

B

59.6 °F

D

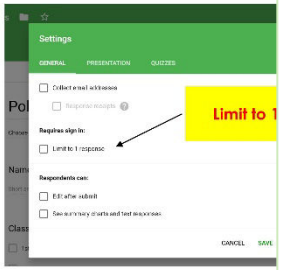
Editable

SELF-GRADING

First, The Basics:

1.) Have access to the Internet.
2.) Have a Google account – this is FREE and easy to create.
3.) Every student who uses the activity needs their own Google Account and the Google Forms App.
4.) Students can submit their finished school is one-to-one. Using Goog is not a requirement.
5.) If you want to make a hard cop

Click the Gear and Check S



Changing Point Values:

Every question is set at a value of 1 point each.

16 questions show total points: Total points: 16

To alter the point values:

1.) Click on any question.
2.) Click ANSWER KEY (located at the
3.) Click on arrow up/down to chang

Self-Grad

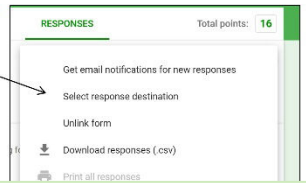
From your teacher copy you can see re GOOGLE SHEET to track student data.

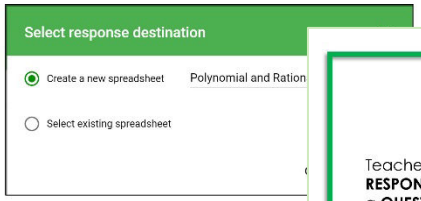
On the **RESPONSES TAB:**

Click the three vertical dots (snowman) to begin the set-up for creating a spreadsheet.

Self-Grading Set-Up & Spreadsheet:

Click **SELECT RESPONSE DESTINATION**, Then create a new spreadsheet. This will create the spreadsheet and will save by default to your GOOGLE DRIVE Folder

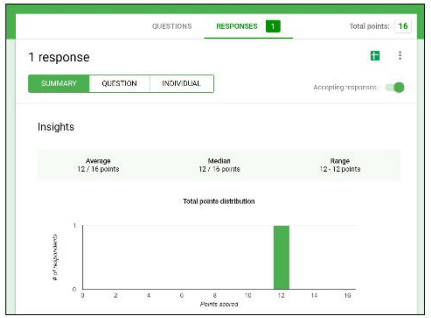




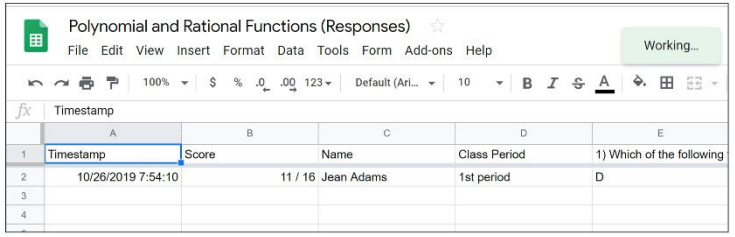
To view the student responses on the spreadsheet click here:

Viewing Student Responses:

Teachers can check responses through the **RESPONSE Tab** using a bar graph **SUMMARY**, a **QUESTION** report or an **INDIVIDUAL** student report.



If you choose to create a GOOGLE SHEET, the data will also be collected for students in the **SPREADSHEET**, which will allow sorting and an overview of all responses as shown below.



Low Prep

Flamingo MATH Jean Adams

Step-by-Step Instructions