


# Functions & Graphs Stations Activity

This Algebra 2 Stations Activity set will provide a fun-filled class review for the concepts in **Unit 2: Functions, Equations & Graphs**

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Who doesn't love a set of station cards ? This activity is designed to help your Algebra 2 students review key concepts at the end of the unit on ***Functions, Graphs and Equations.*** There are 22 questions divided into 9 stations.

**Standards covered:**

**CCSS:** HSA.BF.A.1; HSF.BF.A.1.B; HSF.BF.B.3; HSA.CED.A.1; HSA.CED.A.3; HSA.CED.A.4; HSA.REI.B.3; HSA.REI.D.10; HSF.IF.C.7; HSF.IF.C.7.B; HSA.SSE.A.1; HSF.IF.B.4; HSF.IF.B.6; HSF.LE.A.2; HSA.REI.D.12

**TEKS:** A2.1(B), **:** A2.1(C), A2.1(F), A2.1(G), A2.3(E), A2.3(F) A2.2(A), A2.6(C), A2.7(I); A2.1(C), A2.1(F), A2.2(A), A2.7(I), AR.3(C),

**Teaching Suggestions:**

- Use the set as an end of the unit rotation station activity for 2-4 per group .
- Use the cards as a review activity prior to assessing students.
- An answer key is included with the activity.

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# Task Cards

Write an equation of the line through each pair of points.

1. (4, 9) and (0, 3)
2. (−2, 5) and (−6,1)
3. (7, 4) and (5, 4)

H

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Find the slope of a line perpendicular and the slope of the line parallel to each of the following.

4. $6y - 18 = 24x$
5. $9x - 12y = 3$
6. $y = 7$

U

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Find the constant of variation, write a function that models each relationship and solve for the indicated variable.

7. If $y$ varies directly with $x$ and $y = 16$ when $x = 6$. Find $y$ when $x = 10$.
8. If $y$ varies directly with $x$ and $y = 11$ when $x = 2$. Find $x$ when $y = 30$.

$N_1$

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If $f(x) = x^2 - 5x + 6$ and $g(x) = -6x + 8$, find the following.

9. $f(x) + g(x)$
10. $f(x) - g(x)$
11. $f(-3) - g(-3)$
12. $g(x) - 5$

C

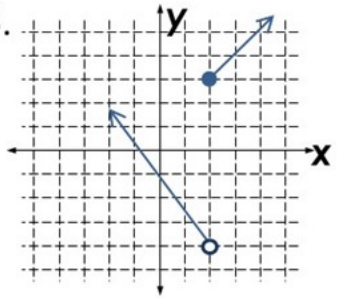
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PREVIEW

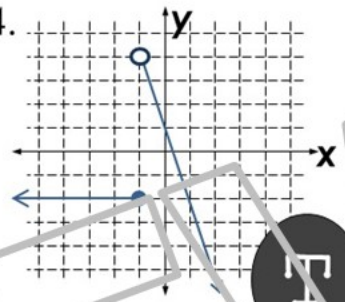
# Task Cards

Write the piecewise function for the graph shown, state the domain and range.

13.




14.




T

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Graph and state intercepts.

15. $4x + 5y = -20$

16. $3x - 4y = -12$

17. $y = |x - 3| - 2$

I

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Graph and shade the solution set.

18. $2x - 4y < 8$

19. $y \leq |x + 2| - 3$

20. $x > -4$

O

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21. Draw a scatter plot for the data, find the equation for the line of best fit. Make a prediction for a person at age 25.

| Average Movie Attendance per Year by Age | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Age** | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| **Movies** | 20 | 23 | 24 | 28 | 30 | 22 | 14 | 12 |

$N_2$

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PREVIEW

# Task Cards

Write an equation in standard form for the line that is:

22. parallel to the line $3x - 6y = 9$ and passes through the point $(-1/2, 3)$.

23. perpendicular to the line $3x - 6y = 9$ and passes through the point $(-1/2, 3)$.



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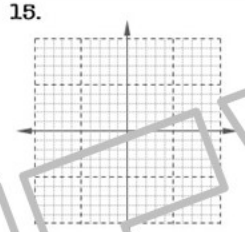
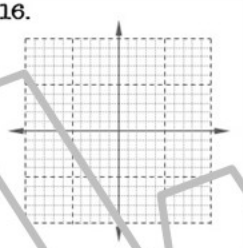
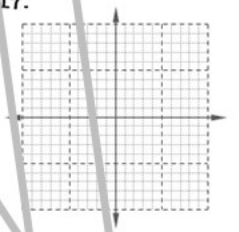
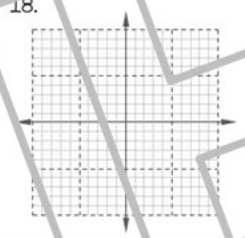
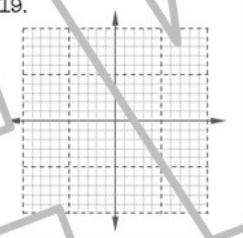
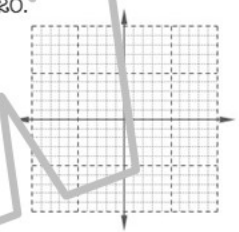
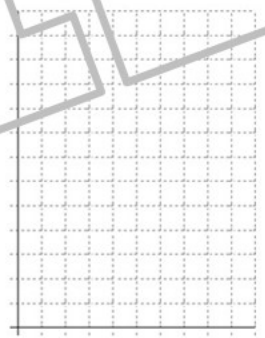
PREVIEW

# Student Recording Sheet

Functions, Equations, & Graphs Stations Name_____

| | | | |
|---|---|---|---|
| F | 1. | 2. | 3. |
| U | 4. | 5. | 6. |
| $N_1$ | 7. | 8. | |
| C | 9. | 10. | |
| | 11. | 12. | |
| T | 13 | 14. | |

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| | | | |
|---|---|---|---|
| I | 15.  | 16.  | 17.  |
| O | 18.  | 19.  | 20.  |
| $N_2$ | 21.  | | |
| S | 22. | 23. | |

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PREVIEW

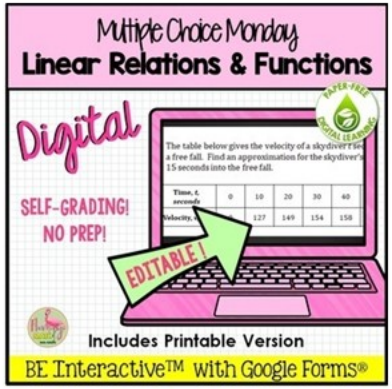
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My goal is to help you bring balance into your teacher life by providing relevant content, engaging activities, and comprehensive assessments for your high-stakes math course.

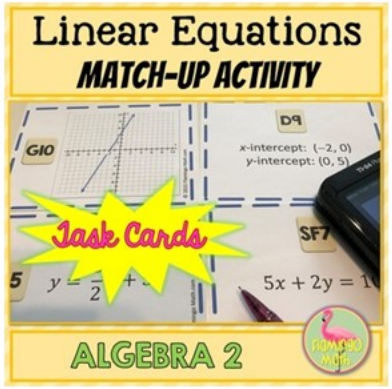
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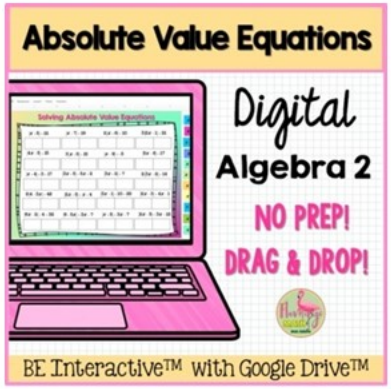
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TPT

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