



Introduction to Graphing

Suggested time: 75 min

What's important in this lesson:

You will review the basics about graphing. Vocabulary for this unit will be introduced here.

Complete these steps:

1. Complete Frayer Model cards for each word in the word list. Your teacher can copy more for you. You may use any resource available to complete your cards ie; computer, dictionary, math texts, a math teacher, etc.
2. Cut out the graphing labels. Place labels on the grid. Be prepared to show the teacher.

Hand-in the following to your teacher:

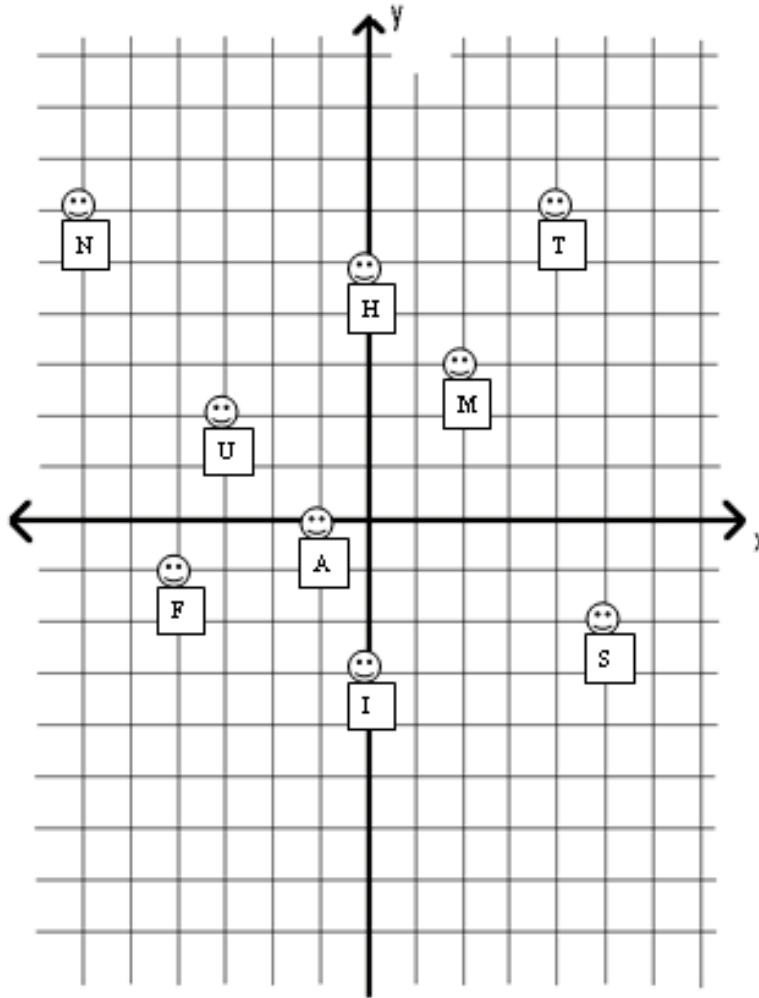
1. Performance task: labeling a set of axes with all of the given words/descriptions.
2. All cards completed and shown to teacher.

Questions for the teacher:

Diagnostic Introductory Activity:
Unit 3 Lesson 1



Match the coordinate points with the letters. The point is denoted by the ☺



| | | | |
|-------|--------|-------|-------|
| | | | |
| (2,3) | (-1,0) | (4,6) | (0,5) |

| | |
|--------|--------|
| | |
| (0,-3) | (5,-2) |

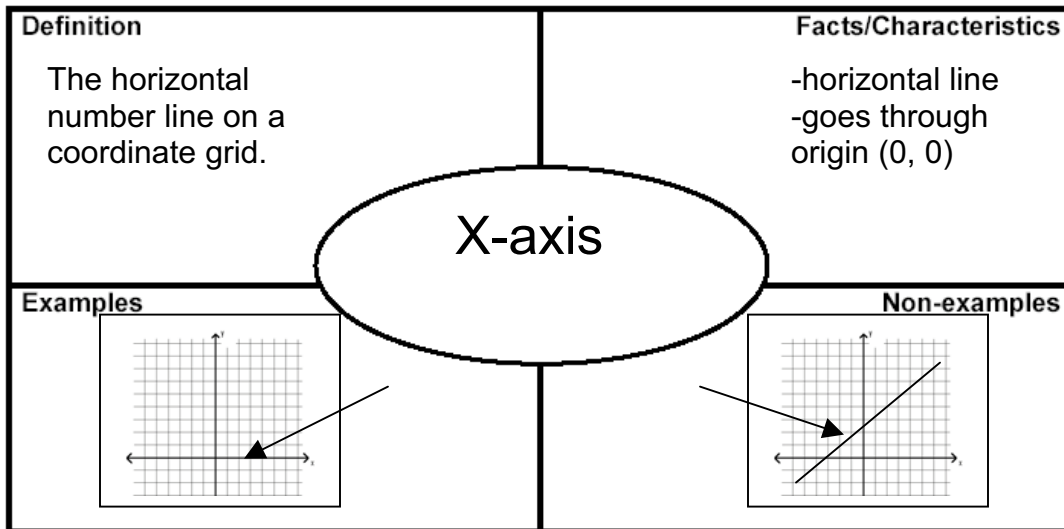
| | | |
|---------|--------|--------|
| | | |
| (-4,-1) | (-3,2) | (-6,6) |



Word List

| | | |
|---|--|---|
| Scatter plot Linear Non-linear Variable Dependent variable Independent variable Constant rate of change | rate Equation of a line Ordered pair Table of values scale x-axis horizontal | y-axis vertical origin relationship interpolation extrapolation Slope Initial cost |
|---|--|---|

This vocabulary strategy is known as the Frayer Model. Complete cards for each of the words listed. You may use illustrations to convey your ideas. Here is a sample card to demonstrate.





Frayer Model Template

| | | | |
|------------|--|-----------------------|--|
| Definition | | Facts/Characteristics | |
| Examples | | Non-examples | |

| | | | |
|------------|--|-----------------------|--|
| Definition | | Facts/Characteristics | |
| Examples | | Non-examples | |

Student Handout: Unit 3 Lesson 1

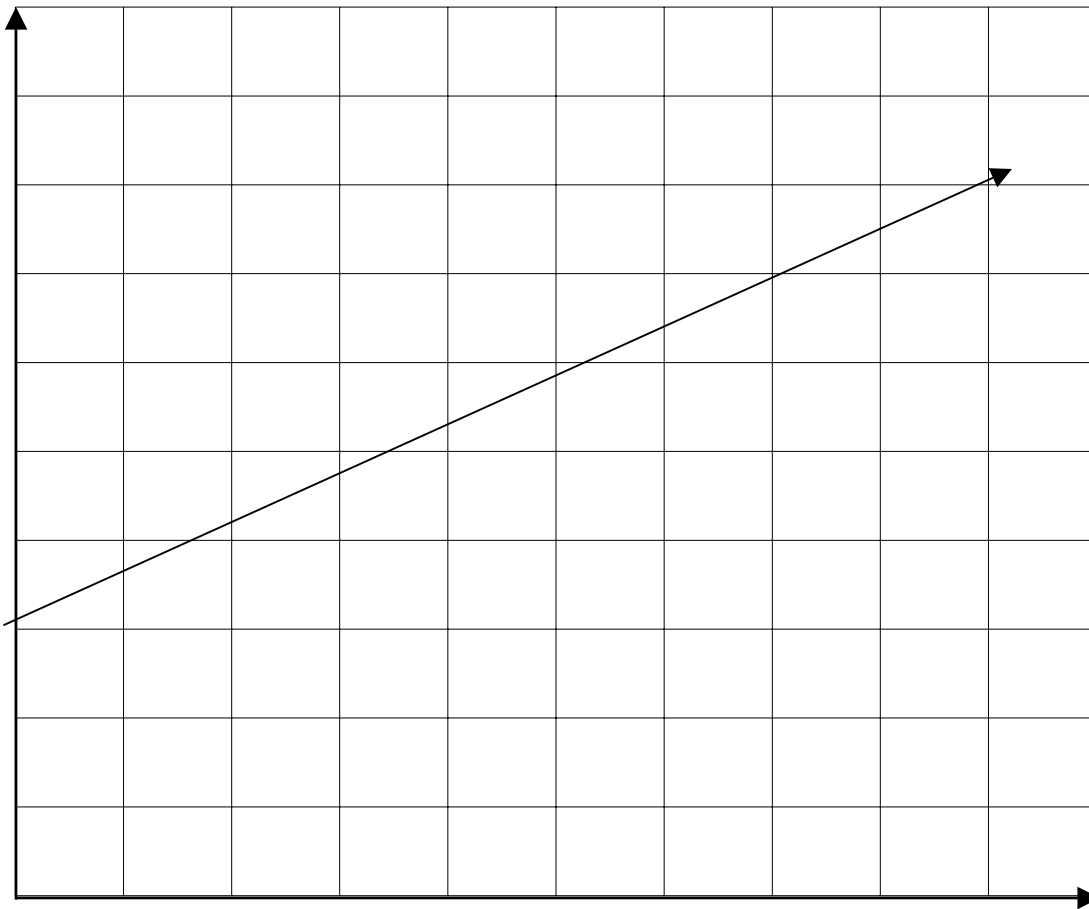


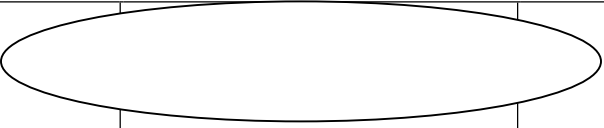
| | |
|-------------------|------------------------------|
| Definition | Facts/Characteristics |
| Examples | Non-examples |

The form is a large rectangle divided into four quadrants by a vertical and a horizontal line. In the center of the rectangle is a large, empty oval. The labels 'Definition', 'Facts/Characteristics', 'Examples', and 'Non-examples' are positioned in the top-left, top-right, bottom-left, and bottom-right corners of the quadrants, respectively.



Label This Graph...



| x | y | (x,y) |
|--|----------|--------------|
|  | | |



Cut out these labels and use them on the “Label this Graph...” handout.

| | |
|---------------------------|-----------------------------|
| Y-axis | X-axis |
| Initial Cost | Vertical |
| Intercept | Horizontal |
| Scale | Slope |
| Dependent variable | Independent variable |