

Name of Activity: Polygraph

Objective: Through a computerized round of 20 questions (or less!) try to guess the line that your partner selected from a given set of lines by asking YES or NO questions. Eliminate lines that do not fit, until one line remains. Goals of the activity:

- Identify important features of lines
- Precisely describe these features to your peers using Academic Vocabulary
- Increase your vocabulary relevant to lines
- Identify slopes that are positive, negative, zero and undefined.

To Log-in:

Go To: student.desmos.com

***You do not need to sign in or create an account*

Type in class CODE: [82SXR](#)

Click button for [Continue Without Signing In](#)

Type in FIRST and LAST NAME (you will not receive any points if you do not use your first and last name). I can see your work listed under your name. For the purposes of the game, you will be given a randomized famous Mathematician's name when you are playing in order to keep the game anonymous.

Directions:

Once you log-in, Desmos will direct you through the activity. Follow all directions carefully. I am monitoring your progress and EVERYTHING that you type is being recorded and is viewable by me. Please take this activity seriously (while having fun!), and practice the skills we have been working on in class.

In order to keep you accountable, the back of this sheet has spaces where you will record each round that you play. You will receive points for each round completed (you must complete a minimum of 4 rounds--2 as the Picker, 2 as the Guesser), as well as the number of Academic Vocabulary words that you use. You will lose points for all inappropriate or off task questions or words used, so choose your words carefully.

This is a vocabulary building activity, as well as building your skills in recognizing slope. On the back is a word bank of vocabulary words you can and should be using. This list is not exhaustive (you can use other words, too). Put a tally mark under each word that you use as the Guesser in formulating your questions.

Pause and Paraphrase: In your own words, summarize the goals of the activity and how you are expected to participate. _____

Word Bank: (When you are the Guesser, put a tally mark beneath each word that you use, each time.)

line linear slope origin positive slope negative slope

increasing decreasing rate of change undefined slope zero slope

y-intercept x-intercept point coordinate pair axis change in y

change in x rise run horizontal vertical m b function

Round 1: Picker or Guesser (circle one) Partner's Name: _____

Guessed in how many questions? _____

The best question my partner asked as the Guesser (or I asked as a Guesser) was: _____

Round 2: Picker or Guesser (circle one) Partner's Name: _____

Guessed in how many questions? _____

The best question my partner asked as the Guesser (or I asked as a Guesser) was: _____

Round 3: Picker or Guesser (circle one) Partner's Name: _____

Guessed in how many questions? _____

The best question my partner asked as the Guesser (or I asked as a Guesser) was: _____

Round 4: Picker or Guesser (circle one) Partner's Name: _____

Guessed in how many questions? _____

The best question my partner asked as the Guesser (or I asked as a Guesser) was: _____

Final Recap: Total # of rounds played: _____ Total # of Academic Vocabulary words used: _____

Reflect: 1) Did you accomplish the learning goals today, why or why not? _____

How did this activity help to build your knowledge of linear functions? _____

Rubric (to be completed by teacher):

Followed log-in directions (DID NOT sign in with account or create one) ___/1

Entered First and Last Name: ___/1

Round 1 complete: ___/4

Round 2 complete: ___/4

Round 3 complete: ___/4

Round 4 complete: ___/4

All sections of assignment complete: ___/2

Additional rounds completed: (+1 point each): _____

Inappropriate/Off Task words or phrases used (-1 each instance): _____

TOTAL POINTS: _____/20

