Linear vs Nonlinear Functions

Learning Targets:
I can determine whether a function is a linear or nonlinear by looking at a table, graph, equation or words.

- Linear Function
- Nonlinear function

Engage	Your Task
Complete the goFormative.	After completing the task to the left, list as many differences between the two functions as you can.

Explore	Your Task
1. Watch the video from Learnzillion and Complete the graphic organizer. 2. Complete the Give 1 Get 1 Protocol. 3. After all steps are completed, complete the task on the right.	**Create a hyperlink to your graphic organizer HERE.** Describe the differences between the graphs, tables, equations, and verbal descriptions of the Linear and Nonlinear functions.

Graphs	
Tables	
Equations	
Verbal Descriptions	

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Explain (Practice)	**Your Task**
1. Go to desmos, click join and complete the activity. 2. See if you got the main ideas by taking a Quizizz. Game code is **244203**. Use your notes to help.	**After** completing all the tasks to the left, if you have any remaining questions or areas you are struggling with, list them in the space below.
Apply	**Your Task**
1. Watch the video and complete the graphic organizer. 2. Work with your partner to complete the Pattern Project. 3. Upload the picture(s) into the padlet. 4. Comment on another pairs work in the padlet by following peer critique protocol.	**Create a hyperlink to your graphic organizer HERE.** **Complete 3 and 4 on the left.**
Reflect	**Your Task**
It's time to think about what you have learned. Review the goFormative in the Engage section. Then complete the task on the right.	The two graphs are drawn for each function. Explain which function is linear and which one is nonlinear. Use your key vocabulary.
Extend (Optional)	**Your Task**
Finished early and looking for more opportunities to extend the notion of linear and nonlinear functions. Choose the Missions listed.	Mission 1: Linear Function in Real Life (Turbo Texting) Go to desmos, click join and complete the activity. Mission 2: Nonlinear Function in Real Life (Predicting Movie Ticket Prices) Go to desmos, click join and complete the activity.

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