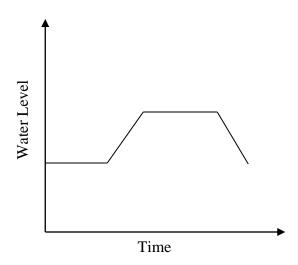
Name:		
maille.		

Date:_____

Analyzing & Sketching

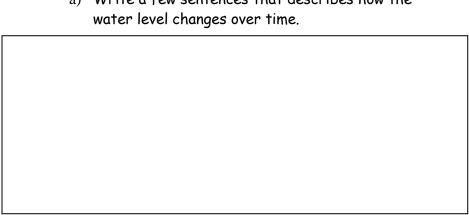
Graphs

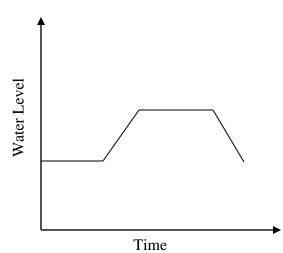


Analyzing and Sketching Graphs

Working with your teammates, look at the following graph and answer the questions below.

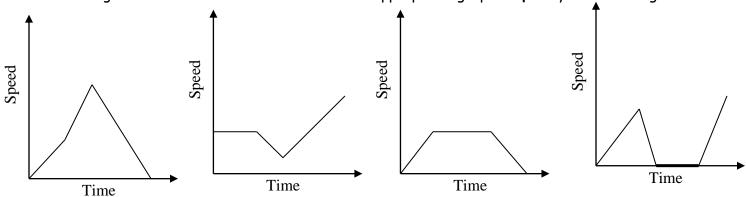
a) Write a few sentences that describes how the





b) What situation can this graph represent?

You are riding a bike. Match each situation with the appropriate graph. Explain your reasoning.

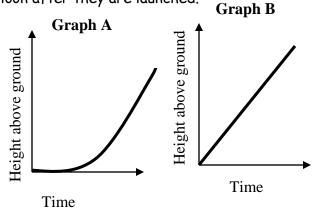


- a) You gradually increase your speed, then ride at a constant speed along a bike path. You then slow down until you reach your friend's house.
- b) You gradually increase your speed, then go down a hill. You then quickly come to a stop at an intersection.
- c) You gradually increase your speed, then stop at a store for a couple of minutes. You then continue to ride, gradually increasing your speed.
- d) You ride at a constant speed, then go up a hill. Once on the top of the hill, you gradually increase your speed.

The graphs represent the height of a rocket and a weather balloon after they are launched.

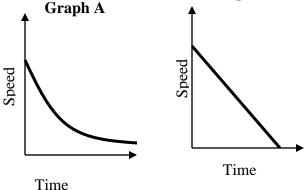
a) How are the graphs similar? How are they different?

b) Compare the steepness of each graph. Which graph do you think represents the height of the rocket? Explain.

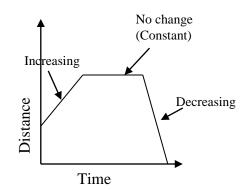


a) How are the graphs similar? How are they different?

b) Compare the steepness of each graph. Which graph do you think represents the car approaching a stop sign? Explain.



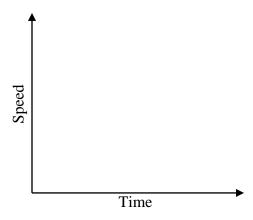
Graphs can show the relationship between quantities without using specific numbers on the axes.



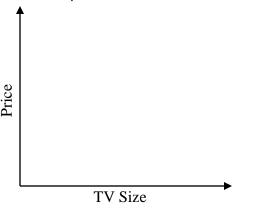
Sketching Graphs

Sketch a graph that represents each situation. Be prepared to show and explain your reasoning behind your graph.

1) A stopped subway train gains speed at a constant rate until it reaches its maximum speed. It travels at this speed for a while, and then slows down at a constant rate until coming to a stop at the next station.



2) As television size increases, the price increases at an increasing rate. (Is it linear?)



3) A fully charged battery loses its charge at a constant rate until it has no charge left. You plug it in and recharge it fully. Then it loses its charge at a constant rate until it has no charge left.

