

## Relating Graphs to Events 5-1

### Golf Ball Segment:

Drop a golf ball at a height no higher than your head. You may do this more than once. When you release the golf ball observe the height of the golf ball as time passes. Using the graph provided, sketch a graph that represents the height of the golf ball as time passes. Before you draw it, you have to distinguish which topic is the independent and which is the dependent. Label each axis. Then interpret each section by writing a brief description of what occurred at that specific moment on the graph.



### Jump Rope Segment:

Make sure no one is near so that you do not accidentally hit them. Jump rope for about 15 seconds. Get a feel for the distance your feet are in relation to the ground as you jump the rope. Using the graph provided, sketch a graph that represents the distance of your feet to the ground as you jumped the rope. Before you draw it, you have to distinguish which topic is the independent and which is the dependent. Label each axis. Then interpret each section by writing a brief description of what occurred at that specific moment on the graph.



**Water Drink Segment:**

**Upon Mr. Roy's approval. Go get a drink of water at the water fountain. Take a 10 second drink. After quenching your thirst, go to your locker. Once at your locker, take about 1 minute to find a book to read. Then go back to Mr. Roy's classroom. As you walk back, think about the distance you were from Mr. Roy's room while getting a drink of water and going to your locker. Using the graph provided, sketch a graph that relates the time from when you went for your drink and the distance you traveled from Mr. Roy's room. Before you draw it, you have to distinguish which topic is the independent and which is the dependent. Label each axis. Then interpret each section by writing a brief description of what occurred at that specific moment on the graph.**



**A train pulls into a station and lets off its passengers. Draw a graph to represent the speed of the train as time passes. Before you draw it, you have to distinguish which topic is the independent and which is the dependent. Label everything appropriately.**



**A man takes a ride on a ferris wheel. Draw a graph to represent the distance he is from the ground as time passes. Before you draw it, you have to distinguish which topic is the independent and which is the dependent. Label everything appropriately.**



**A child climbs up a slide and then slides down. Draw a graph to represent the speed of the child as time passes. Before you draw it, you have to distinguish which topic is the independent and which is the dependent. Label everything appropriately.**



**A bank account that has money. Draw a graph to represent the amount of money in the account as time passes and there were 3 withdrawals and one 1 deposit. Before you draw it, you have to distinguish which topic is the independent and which is the dependent. Label everything appropriately.**

