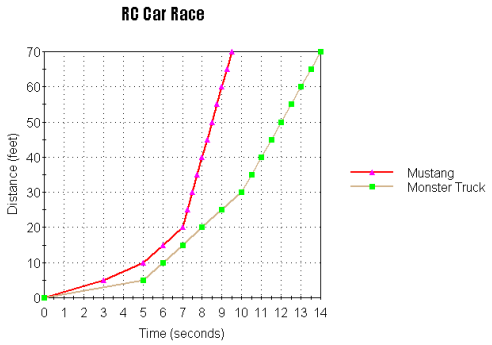
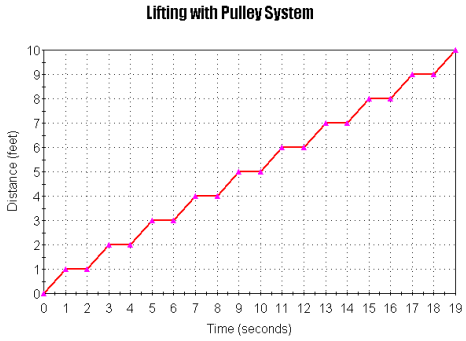
Name_____

Graphs to Stories

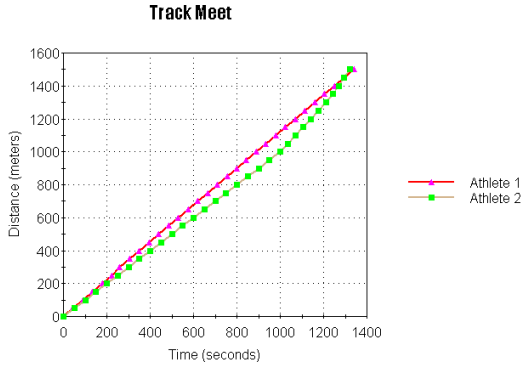
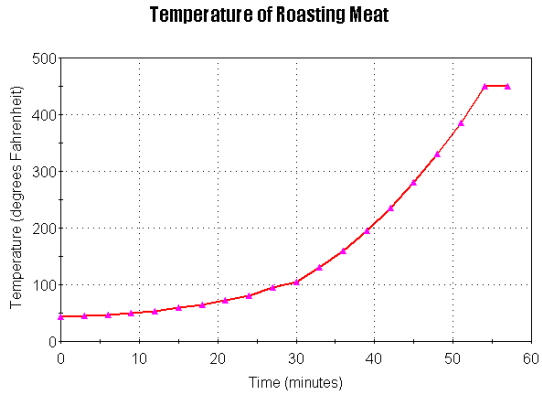
The RC Car Race graph shows the distance and time ratio of two radio controlled cars during a race. Describe what is happening with each car? Do they change speed? Calculate the speed of the Monster Truck and Mustang at 4, 5, 6, 7, 8, and 9 seconds into the race. (s = d/t) Compare which one changes speed more quickly. What is the total increase in speed for each vehicle during those 6 seconds? What is change of speed? What words do we use to describe change in speed?



Your father asks you to help him lift some things into the loft above your garage. He developed a pulley system because it was easier to lift things by pulley than to carry them by hand on a ladder. You load the bucket with tools and watch your father pull them up. Analyze the graph and describe what is happening as your father lifts the bucket. Does he lift at a constant speed? Is there any acceleration or deceleration? What do you think the peaks mean? What do the horizontal lines mean? The diagonal lines?



Two of your friends are athletes on the track team. The Track Meet graph shows how each one did on the most recent 1500 meter middle distance track event. Describe what happened during the race. Calculate each athlete's speed at 400 meters, 1000 meters, and 1500 meters. (s = d/t) For each distance, estimate the time as best as you can from the graph. Describe the speed of each athlete in terms of change. Did athlete 1run at a constant speed or did the speed change? How about athlete 2?



Your mother needs your help with dinner. She asks you to watch her roast and to tell her when its internal temperature reaches 180 degrees Fahrenheit. You watch intently for 20 minutes and decide to watch TV for a while because the roast's temperature is increasing so slowly. You are sure that you can watch your favorite 30-minute TV show before the roast reaches 180 degrees. Based on the graph, is this an accurate assumption? Did the temperature of the roast increase at a constant rate or did it increase more quickly after you stopped watching it? Will your mother be proud of you? Will you eat the roast?