

Graphing Notes

Team 1 Science
January 12, 2016

All Graphs Should Include...



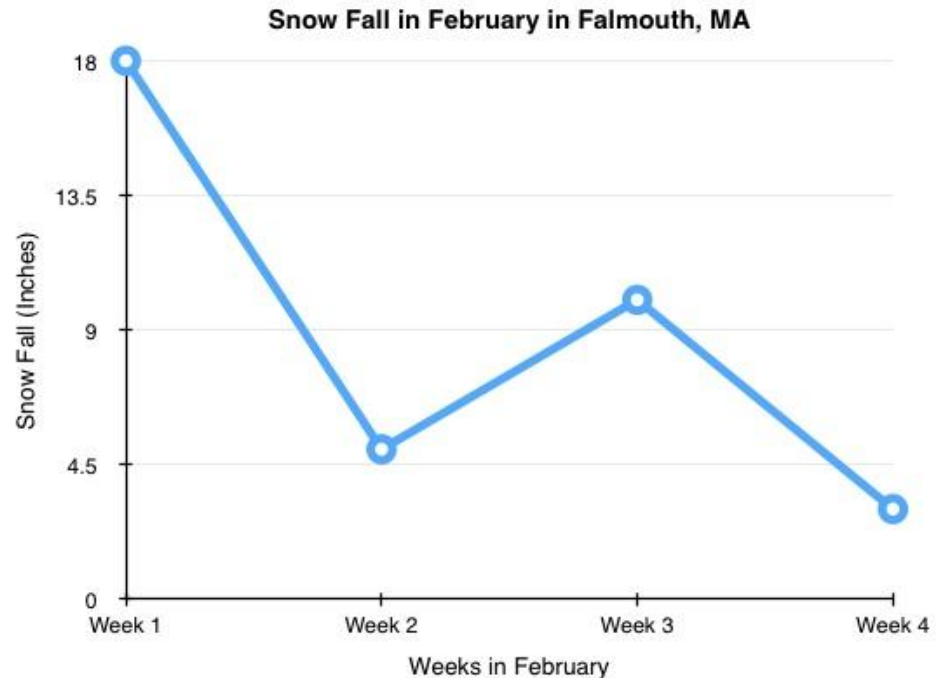
LINE GRAPHS~

Line graphs are used to show change over time.

What is the dependent variable?

Which axis is it on?

How much snow fell in the last 2 weeks of February?



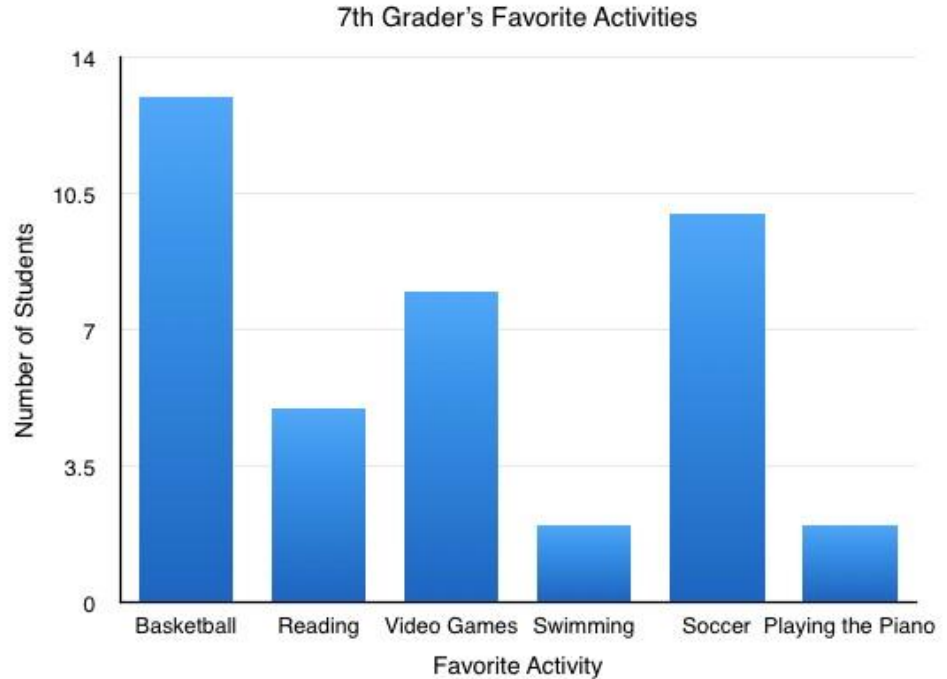
BAR GRAPHS~

Bar graphs are used to compare data.

What is the dependent variable?

What is the most popular activity?

How many students like swimming and playing the piano?



Which Graph Should I Use?

Which data set would be more appropriate for a line graph?
Which one for a bar graph?

1. The speed of a toy car as it rolls down a ramp
2. Average Common Assessment test grades for all of Ms. Smith's Science Classes
3. The amount of pets each student has at home
4. The average water temperature of Cape Cod Bay in 2014 (measured every month)

Weeks	Plant #1 (height, with $\frac{1}{2}$ cup of fertilizer added)	Plant #2 (height, with no fertilizer added)
Week 1	2 in	2 in
Week 2	4 in	2 in
Week 3	7 in	3 in
Week 4	9 in	4 in

This project was to test the effect of plant fertilizer on plant growth. The student regularly watered two plants but one of the plants (“Plant #1”) had $\frac{1}{2}$ cup of fertilizer and the other did not. She measured each plant on the same day and at the same time for four weeks.

On graph paper, draw a graph using the data above. Answer these questions: What is the dependent variable? What is the independent variable? What is the control?