Science Skills 6 Constructing Line Graphs

A line graph is used to display data that show how one variable changes in response to another variable. You should use a line graph when you do not have categories of data.

Data was taken to determine if air temperature affected the number times frogs croak in a minute. The results are below. Make a line graph to show these results.

Air Temperature in °C	Frog Croaks per Minute
22	12
23	14
24	15
25	16
26	17
27	21
28	26

Sometimes two different things can be compared on the same line graph. A different color or type of line is used for each thing you want to compare. Graphs with more that one color or type of line are called double line graphs.

The following data compare the average growth of adolescent boys and girls. Choose two different colors – one to represent the boys and one to represent the girls. Be sure to color in the key.

Age in	Average	Average growth of
years	growth of girls	boys
13	62	61
14	63	64
15	63.5	66
16	64	68
17	64.5	69.5
18	64.5	69.5
19	64.5	69.5
20	64.5	69.5
21	64.5	69.5

Start the age at 13 and the height at 60

KEY