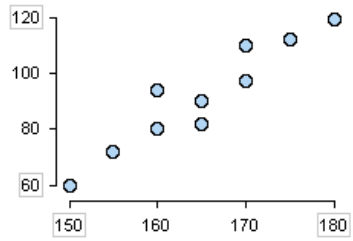
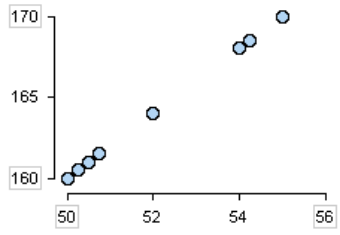
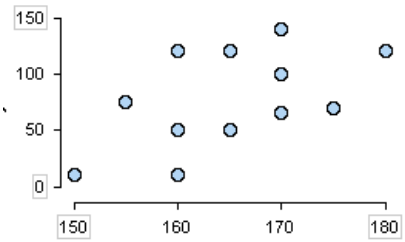
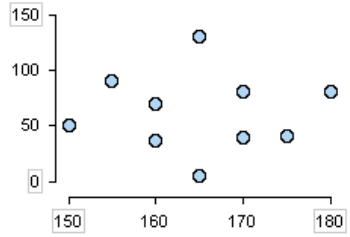
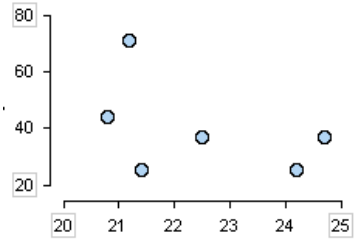
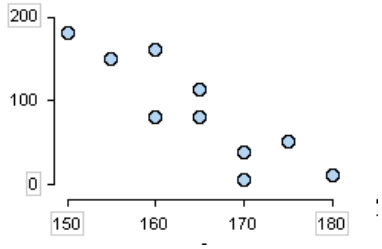
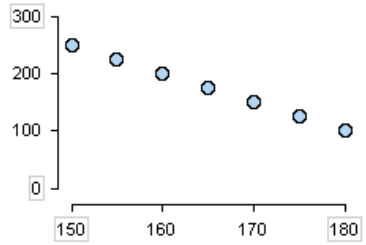
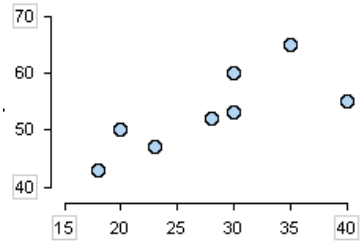
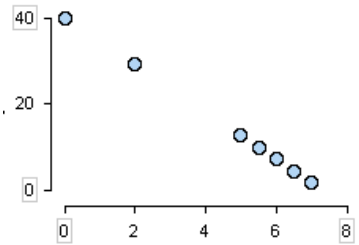
Learning Goal: Use a scatterplot to display the relationship between two quantitative variables. Describe the overall pattern and striking deviations from the pattern.

Learning Objective: Use r to describe strength and direction for a linear relationship.

Our goal in this activity is to look for patterns to try to figure out what the correlation r measures. *Below there are 9 scatterplots and 9 values of the correlation r. Try to assign each scatterplot an r-value from the list, using the following properties of r: 1) r is positive when the scatterplot is headed uphill and negative when the scatterplot is headed downhill; 2) the tighter the scatterplot is clustered about a line, the closer r is to 1 (headed uphill) or -1 (headed downhill).*

Scatterplot 1 	Scatterplot 2 	Scatterplot 3 
Scatterplot 4 	Scatterplot 5 	Scatterplot 6 
Scatterplot 7 	Scatterplot 8 	Scatterplot 9 

Correlation coefficients (r-value)	-1	-1	-0.44	0.01	0.55	0.75	0.88	0.94	1