

ANALYZE

Using your experimental data, record the answers to the following questions.

1. Use your graph paper to plot the number of flips (y-axis) versus the trial number (x-axis). Draw a smooth line through the points.
2. Examine your graph. Is the rate of the number of heads produced over time linear or nonlinear? Is the rate constant over time or does it change?

3. Why does each trial reduce the number of heads by approximately one-half?

4. A half-life is the time required for one-half of the atoms of a radioisotope to emit radiation and to decay to products. What value represents one half-life for the process of flipping coins?

YOU'RE THE CHEMIST

Use the space below to write your observations to the small-scale activities in the *You're the Chemist* section.
