



In Class Exercises (ICE) - 12/6/00

The objective of this problem is to collect some data, find a formula to model the data collected, make a prediction and then check to see if your prediction is correct.

You will need:

- a tape measure***
- a super-ball.***

• The first step is to collect some data by bouncing the super-ball and reading how high the ball bounces each time. Record this data in the table below.

Number of bounces completed	Maximum height during bounce

• Next, find a formula that describes the data in your table.

• Next, work out how many bounces it will take before the bounces are:

• less than one foot in height:

• less than one inch in height:

• Now do the experiment to see if your predictions are correct.