

Barbie Bungee

Number of Students: 2

Objectives

- Collect data using a rubber band bungee cord and a Barbie doll.
- Use the data collected to construct a scatter plot and generate a line of best fit.
- Predict how many rubber bands are needed for Barbie to safely jump from a given distance.

Materials

- Rubber bands (all the same size and type)
- Yardsticks or measuring tapes
- Masking tape
- Barbie® dolls (or similar)
- Barbie Bungee Activity Sheet

Procedures

- Discuss with your partner “Do you think the length of the cord and the size of the person matters when bungee jumping? Would it be smart to lie about your height or weight?”
- In this activity, you are going to conduct an experiment, collect data, and then use the data to predict the maximum number of rubber bands that should be used to give Barbie a safe jump from a height of 400cm.