

Barbie Bungee Jump Project

Description

This project requires students to collect their own data for how far a Barbie doll will fall depending on the number of rubber bands attached to her. The students find a model for the data and at a later date compete in a bungee jump competition.

Prep Work

Print the Barbie Bungee Jump project page. Enough for each group of 3-4 students. Have tape measures or meter sticks, rubber bands, masking tape and Barbies available. Pick a location on campus to do a jump off competition and get the jump measurement.

Instructions

- **Pre Activity**

None

- **Activity**

Give each group the supplies.

Explain the basic idea of the data collection. In particular that at this point you don't need Barbie to get close to the ground but you simply need to measure how far she falls.

Send groups out to collect data. Go around and help groups that are struggling.

Students will use their collected data to find a model and write their report.

Day of jump off tell students the jump height and have them prepare their Barbies. No practice jumps!

- **Post Activity**

None

Time Required

115 minutes: about 50-60 minutes for data collection and 30-45 minutes for jump off.
