



EPPro8 Challenge

Engineer Problem Solve Innovate

Bungy Jump – Teacher’s Notes

Summary

Teams will construct a bungy jump tower. A chain of rubber bands is connected to the weight which is then pushed from the tower.

Teams will experiment with the length and thickness of the rubber band chain to achieve the best bungy outcome.

Principles

Structures, Measurement, Experimental Method.

Extra Equipment

Large bag of Size 18 rubber bands. These are thin rubber bands. These break easily which is the point of this challenge: teams thinking how many rubber bands are required to make a strong bungee.

2kg, 1kg and 500g weights. <http://epro8challenge.co.nz/school-activities/additonalresources> has instructions on how to easily make your own using recycled equipment.

What to Aim For

See the “Getting the Most from your Equipment” document for guidelines on what to aim for from these challenges.

The trick for this challenge is to build a bungy that is nice and thick – at least five rubber bands thick.

Our Solution

