

## **Waycroft Project Additional Information**

We propose building about 6 cardboard houses which will all have varying features such as different degrees of insulation, different windows etc. The temperature in the houses would be measured and logged using Filipe's sensor equipment . If summer, we propose putting ice in house and comparing heat gains. If cool (e.g at night), we propose using hot water bottles and measuring heat losses.

Materials for project

Cardboard: free from back of shops

Glue/Tape: shop

Insulation: Rigid board, Mineral Rockwool, Straw/Hay/ Soil - construction materials could be obtained from contractors if they have spare on site. Fabrice will investigate.

Perspex: for window (TBC) will probably need a cheap alternative for this?

### **Additional proposal TBC**

Fabrice still thinks we should investigate the possibility of doing a project for the 'Forces' section. The challenge will be to manage 65 young persons. He likes the idea of making a simple crane and testing the crane lifting ability. The project could be broken in to 5-6 manageable groups to make the different components of the crane.

Link with curriculum: Lifting, gravity forces, push-pull (action reaction Newton laws), tension/compression, simple machine, pulley

Ask the question: would it be easier to lift on the moon? Learn about gravitational forces – how and why they are different on various planets?

This proposal needs more work and is on hold as a MAYBE.