

Building Bridges.

Problem: A car has got to travel from one side of a canyon to another. The canyon is 40 cm wide.

Task: You have to make a bridge which the car can travel over.

Materials:

Paper (£10)

Paper clips (£3)

Sellotape (£10 for 15 cm)

Scissors (Free)

Ruler (Free)

Pencils (Free)

Scrap paper (Free) to practice construction techniques.

Rules:

You will work with your partner (or in 3s) to solve the problems.

First task, you need to think of a name for your company.

You then need to make a bridge large enough (and strong enough) for a car to travel from one side to another.

You can only use the materials listed above and all materials need to be bought from Bob's Building Supplies at the process stated. Only Bob's genuine products are allowed. To be used in the final design.

Each pair has one hundred pound to spend. No refunds will be given once materials have been purchased.

At particular points during the afternoon, special offers may be offered, Don't miss these.

You must work with your partner - team work is essential.

You only have 30 minutes to make your bridge!

Judging:

At the end of 30 minutes the children must show their bridges and then test them using the car provided. The car can't be used to test the bridge during building (although it can be handled to check size and weight). It must be cleaned between each use!

Points will be awarded for design, team work, fitness for purpose and use of materials.

After judging:

Talk as a class about the best approaches to this task. What could we do to the paper to make it stronger? Fold it/corrugate it/roll it?

The children will now have a chance to repeat the task and make a new bridge, making adaptations and changes. Once again they will be judged!