**Fairfield challenge competition 2016**

One of the options for our competition this year is the **Canyon Crossing Challenge**, so if you like building structures this is the challenge for you!

**GUIDELINES**

* The bridge must rest on the table tops either side of the ‘canyon’ but can be secured to one or both tables. Each table top is 2.5cm thick.
* Any fixing cannot damage the table and will be counted as part of the weight of the bridge. You can decorate or theme the bridge in a creative way but think about the impact this may have on the weight.
* The bridge will be tested by hanging weights from the centre, 100g-10kg max.

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**TASK**

We would like you to design and construct a bridge which must span a gap (the canyon) of 70cm.

**The bridge should carry as heavy a load as possible, whilst being as light as possible.**

* The bridge must span the 70cm gap between two standard office desks of 74cm height.
* The width of the bridge must be no less than 5cm and no more than 20cm at any point.
* The bridge may extend no more than 100mm below the height of the table tops at any point.

**There is no restriction on the height of the bridge above the table.**

**MATERIALS**

You can use-**K’Nex, Lego**, **Wood**-cocktail/lollipop and matchsticks, dowel or sheet of no more than 6mm thick.

**Plastic**-bottles, straws, rod or sheet of no more than 6mm thick. **Paper** and **card** in any form. **String or thread**.

**Foil, film** and any sheet material, plus **paper clips, staples**, **glue, tape**, **split pins** and similar connecting materials.

Anything to decorate your bridge such as paint, feathers, glitter.

**The bridge can only be made from materials on the list.**

**The closing date for your entry is Monday 22nd February. Please make sure that your entry is small enough to be carried to the science room. Any queries please ask Mrs Saperia, Mrs Barraclough or Mrs Armstrong…Good Luck!**