

BRAMLEY

NORTON

BEARDWOOD

PRENDERGAST

House Technology Competition



2007/08

Lower School Brief:

Carry chair

Situation:

When there was a parade in Roman times, the Emperor would be carried along on a sedan chair. This is a form of transport where someone is carried on a chair-like structure, between two people. Sedan chairs could be used to transport injured people across a river

Brief:

You have been challenged to design and make a sedan chair to carry your house team one at a time across an imaginary river in a relay race. You can only use the materials and tools supplied.

The overall design will be marked on:

Comfort- Can the person being carried be in the sitting position? How relaxed are they?

Stability- Can the person be carried smoothly, without wobbles or uneven movement?

Safety- Is it likely to fall apart? Is the person sitting down likely to be injured?

Ease to carry- Can the chair be carried comfortably, without any jerky movements?

Materials available for construction:

2 wooden poles (broom handles)

A selection of wood pieces that will be the same for each house

A variety of nuts and bolts

Wood screws

Wood nails

Tools available:

Tenon saw, Variety of sizes of wood screws, Try square, Hand drill, Counter sink bit

Hammer, Adjustable spanner, Desk vice, Screwdriver, Metal ruler

Upper School Brief:

Up and over light

Situation:

Objects, ranging from small products to large buildings are illuminated in a range of different ways and a variety of effects can be created. At exhibitions and fairs, displays are brightly lit to attract attention to the advertisements or products that are being promoted.

Brief:

You have been challenged to design and construct a free standing light to illuminate a display stand. The light must be positioned behind an exhibition board that is 1800 tall and shine onto a poster on the front.

The overall design will be marked on:

Practicality- Have the materials been used efficiently? Is it easy to put together?

Stability- Does it wobble? Could it be knocked over easily?

Style- Is it an elegant product? Can you imagine a shop buying this design?

Functionality- How well does it do the job of illuminating the poster?

Materials available for construction:

One sheet of 6mm plywood

One sheet of 3mm plywood

One sheet of laminate

A variety of sizes of nuts and bolts

Wood screws

Wood nails

Tools available:

Hand drill, Counter sink bit, Screwdrivers, Coping saw, Tenon saw, Pliers, Metal ruler, Adjustable spanner, Hammer

Welcome to the House Technology Competition 2007/08

Reminder of important dates:

A list of the team names must be entered by Tuesday 5th February
Competition brief presented to the teams on Tuesday 19th February
Design Technology house competition takes place on Tuesday 4th March

What are the judges looking for?

- The originality and aesthetic qualities of the completed item.
- The quality of manufacture.
- Appropriate use of materials.
- Team work
- Originality

Plus individual marks depending on your team's task.

Guidelines for house leaders

- Please ensure your students are fully briefed before entering.
- One pupil from each year group between 7-9 plus one other in the lower school team.
- One pupil from each year in years 10-13 the upper school team.
- Both teams' scores will be added together, giving the total.
- Research into existing products is advised prior to the competition.
- Team member should not be given advise during the competition.