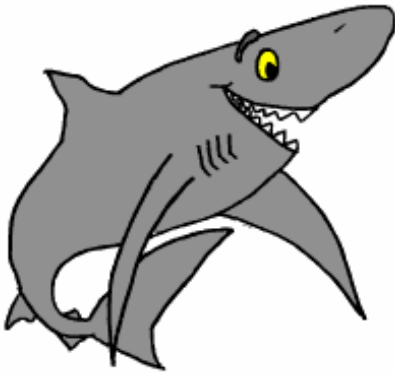


Free standing!

This is a very open ended design brief. You should make something that is free standing. It could be a working product or something that is purely decorative. It could be both working and decorative or neither. It could be a piece of ornamental sculpture or funky furniture for the house or garden. It could fulfil a specific function like a coat stand, stool, picnic chair, bottle cooler, CD rack or lamp. It could be a toy or game, but it must be free standing. You can make it from any materials but should consider the sustainability of your design. You should write a report which should show what inspired your design and why you chose the materials. It should set out the stages you went through in the manufacture of your piece. When it is judged one of your team will be required to tell the judges about your piece, its function and inspiration.

Make a shark hunting machine



Your job is to design and build a machine that help hunt the shark that Mr Cocke saw in the swimming pool when he was walking Monty the dog this morning. It is a small shark, only 48 cm long, but none the less could be dangerous if we don't catch it before swimming squad go for their practice. The shark can be dealt with humanely or with no mercy so you could catch it in a net, hook it, bonk it on the head or use any other means you can think of. The shark will be at the shallow end of the pool about 1m deep and is currently asleep.

The machine can be made of any materials and use any power except mains electricity. You should write a report showing the stages of development of your design from planning phase through to construction and testing.

Make a model dragster

Make a dragster car that can race from a standing start against another car on a straight track. The racer can be made of any material and use any power source or launching mechanism but it must be no more than 30 c.m. long and must not weigh more than 1kg. It will be judged on

design, an accompanying report, and its performance. The performance test will consist of a knock out competition racing from a standing start over 7m on a 1m wide track. More points will be scored for each round completed. Your opposition in each heat will be chosen by random draw.

You should write a report showing the stages of development of your design from planning phase through to construction and testing.



What do you do?

Choose one of these three challenges and make a model that will do the task. Keep a diary of your progress as you have to write a report to go with your model. Your report should show your research, design and how you built your model. It may include text, plans and photos. You must register your entry by e-mail before 8pm Thursday 1st July. Models have to arrive at Brambletye School at 4pm Saturday 3rd July and judging will take place on Sunday 4th July. The performance testing starts at 2 p.m. You should be there to demonstrate your model, maybe receive a prize, and collect your model at the end of the competition.

Judging - Sunday 4th July 2 p.m.

Design 30%

Report 30%

Performance 40%

The judging team will include engineers and science and technology teachers.

Rules

- You must be in Year 7 or below this academic year
- Entries can be individual or in groups of up to three
- All assistance by adults should be acknowledged in your report
- You must have fun while you are doing it!

Brambletye School

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Important dates

- | | |
|----------|------------------------|
| 1st July | - Last registrations |
| 3rd July | - Models to Brambletye |
| 4th July | - 2 p.m. Judging |

Find out more about the competition, download a PDF version of this document and see models from previous year's on our website:

www.brambletye.com

Competition organiser - Ian Purcell
(Head of Science)

Brambletye Technology Competition

Sunday
4th July
2010



We are pleased to announce the challenges
for our annual competition.