CAMBRIDGE UNIVERSITY ENGINEERING DEPARTMENT

GLIDER DESIGN PROJECT

Your task is to design and build a scale-model glider.

Designs will be judged on the basis of four criteria:

- \blacktriangleright The distance the glider can travel, D
- \blacktriangleright The glider's time of flight, T
- > The product $D \times T$
- > The quantity $D \times T \div M$, where M is the mass of the glider (a measure of efficient use of materials)

1 DESIGN REQUIREMENTS

The glider must have a wing span of no more than 60 cm The glider must be no more than 50 cm long

2 MATERIALS

Thick foam board	2 sheets \sim 33×8 cm
Thin foam board	2 sheets ~31×19.5 cm
A4 paper	4 sheets
Drinking straws	8
Tissue paper	1 sheet
Masking tape	
Adhesive	

3 EQUIPMENT

Scissors Stanley knife Steel ruler Sand paper Radius aids Bluetack (for centre of gravity adjustment)

4 **PROJECT PROGRAMME**

- 0.00 Introduction to Design Task
- 0.10 Introduction to Glider Design
- 0.30 Design Session
- 0.45 Construction/Test Session
- 1.55 Final Test Session
- 2.10 Lunch