

CYBER FORT CHALLENGE

CYBER DISCOVERY 1.0

100 possible points

SCHEDULE

Wed 3pm:	Challenge Issued
Wed 3:30pm:	Sketchup Workshop
Thurs 2pm:	Sketchup Work session in team time
Thurs 5pm:	Digital upload deadline
Thursday 10pm	Come see your Fort parts laser cut
Friday 1pm	Fort parts delivered for assembly
Sat 10am	Final Boe Bot Challenge

01_INTRODUCTION

Using the 3D virtual modeling software Sketchup your team must digitally design and fabricate a cyber fort that interfaces with your Boe-Bot and its attachments to collect and defend the marbles gathered during the final competition. Basic training in Sketchup will be provided to any interested team members, and, with the help of the instructor you will generate a digital fort design.

The final Sketchup files should include your school's name and be uploaded to the Cyber Discovery Blog no later than **5PM THURSDAY**. On Friday you will be given your laser cut fort parts and an assembly kit containing tape, glue, a utility knife and straight edge.

02_OBJECTIVE

Cyber forts will be evaluated on their functionality as well as aesthetics, poetics and craft of construction. Functionally, the fort must be easily navigated by your Boe-Bot, fitting any unique operability gained in the auction, while defensively and creatively storing your teams collected marbles. Second, your fort should be designed to clearly identify and celebrate your schools identity and/or a central component or theme from your team's storyline. Lastly, each fort should be built with durability and an intentional sense of craft. All of these qualities will be considered in the final ranking of the forts during the competition on Saturday.

02_RULES

1. All forts shells will be made from 1/16" chipboard (provided by the camp), however decoration, painting and modification of the chipboard is allowed and encouraged to improve the aesthetic qualities of each fort
2. The total area of the footprint of your fort may not exceed **1.5 square feet**.
3. The fort Height limit is **5"**
4. All faces of your digital for design must **3 or 4 sides**. Almost any form can be made from triangles and quadrilateral polygons.
5. The marble holding portion of you fort must have a bottom surface. After each round of the final competition camp staff should be able to pick up your fort and pour the collected marbles into a counting jar.