



# Burning Ships

**Aim** To concentrate as much light into a small spot as possible.

**Materials** 1 lamp, 1 Photosensor, 1 Power Supply, 1 Multimeter  
1 Ruler, Scissors, Gluestick, Bluetack, Sellotape  
1 A4 sheet of Al foil  
1 Paper plate  
2 Balloons

**Method**

- The lamp and photosensor are set up for you, please do not move them.
- The Mirror must be at least 50 cm away from both the lamp and the photosensor.
- You can use any of the available materials to create one mirror not exceeding the size of one plate.

**Conditions** Each team has a thirty second window in which the marshal will observe their attempt. The highest reading observed by the marshal during this time will be used.

**Time limit** 25 minutes

**Ranking** The ranking order will be determined by the difference between photovoltage measured by the marshal with and without mirror.

**Team**

**Result**

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Do not write below line

**Rank**