

Prize Winner

Models & Inventions Year R-2

Liam Rathnaweerage

St Peter's College









RISK ASSESSMENT FORM Models & Inventions

This must be included with your report, log book or entry

NAME: Liam Rathnawee	erage ID: 0680
SCHOOL: St. Peters Colleg	
Activity: Give a brief outline of what you a I am going to m I will show how	
 on the approved list for schools. Chece eyewash facilities, availability of runn Thermal Risks: are you heating things Biological Risks: are you working with Sharps Risks: are you cutting things, Electrical Risks: are you using mains you use a battery instead? 	cals? If so, check with your teacher that any chemicals to be used are ck the safety requirements for their use, such as eye protection and ling water, use of gloves, a well-ventilated area or fume cupboard.
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Also, if you are using other people as sub be part of your experiment.	pjects in an investigation you must get them to sign a note consenting
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Also, if you are using other people as subbe part of your experiment. Risks Sharps Risks chemical Risk	How I will control / manage the risk Use scissors carefully under my parent's guidance. Ask a parent to cut wooden parts using a saw. Wear gloves when using super sticky glue or ask a parent to help
Also, if you are using other people as subbe part of your experiment. Risks Sharps Risks chemical Risk	How I will control / manage the risk Use scissors carefully under my parent's guidance. Ask a parent to cut wooden parts using a saw. Wear gloves when using super sticky glue or ask a parent to help (Attach another sheet if needed.)
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Also, if you are using other people as subbe part of your experiment. Risks Sharps Risks Chemical Risk Risk Assessment in RISK ASSESSMENT COMPLETED BY (study)	How I will control / manage the risk Use scissors carefully under my parent's guidance. Ask a parent to cut wooden parts using a saw. Wear gloves when using super sticky glue or ask a parent to help (Attach another sheet if needed.) Indicates that this activity can be safely carried out dent name(s)): Liam Rathnaweerage

DATE:

Model of a Satellite

Liam Rathnaweerage - St Peter's College



Scientific principle demonstrated

My model shows how satellites can be used to connect with people living in remote areas, like a ship in the ocean. It also shows the most important parts of a satellite.

How the entry was made

I used a photo of a satellite to learn about it. I made the satellite using cardboards and a cardboard tube. I used lego bricks to build the ship. My dad helped to fix the satellite to the board and fix the torch to the wooden base.

Problems

I used blue tack to fix the mirror to the satellite, so I can tilt it. But it kept falling down. Then I used super glue to stick it and changed the way I fixed the torch. My dad made a big hole in the wood and we used blue tack to hold the torch. Now we can move the torch instead of the mirror.



How to operate the model

Use the buttons in the torch to create a light beam.

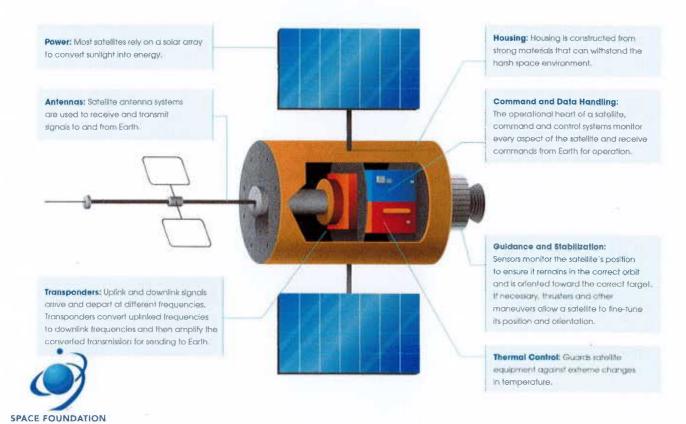


Point the light to the mirror. The mirror reflects the light and shines on the ship.



The torch can creates a laser beam as well. Press and hold the first button to do this. Mirror reflects the laser dot towards the ship.





Acknowledgement of help - Model of a satellite

My dad drilled all the holes in the model using an electric drill. He also cut wooden pieces using a saw. He helped to glue satellite parts using super glue.

Liam Rathnaweerage