



Prize Winner

Models & Inventions

Year R-2

William Harrison

Richmond Primary School



OSA RISK ASSESSMENT FORM

for all entries in (✓) Models & Inventions and Scientific Inquiry

This must be included with your report, log book or entry. One form per entry.

STUDENT(S) NAME: William Harrison. ID: 0547-017

SCHOOL: Richmond Primary School.

Activity: Give a brief outline of what you are planning to do.

Make a polystyrene balloon boat.

Are there possible risks? Consider the following:

- Chemical risks: Are you using chemicals? If so, check with your teacher that any chemicals to be used are on the approved list for schools. Check the safety requirements for their use, such as eye protection and eyewash facilities, availability of running water, use of gloves, a well-ventilated area or fume cupboard.
- Thermal risks: Are you heating things? Could you be burnt?
- Biological risks: Are you working with micro-organisms such as mould and bacteria?
- Sharps risks: Are you cutting things, and is there a risk of injury from sharp objects?
- Electrical risks: Are you using mains (240 volt) electricity? How will you make sure that this is safe? Could you use a battery instead?
- Radiation risks: Does your entry use potentially harmful radiation such as UV or lasers?
- Other hazards.

Also, if you are using other people as subjects in an investigation you must get them to sign a note consenting to be part of your experiment.

Risks	How I will control/manage the risk
Sharps Risk:	An adult will use the knife to cut the polystyrene.
Thermal Risk	An adult will use the glue gun.

(Attach another sheet if needed.)

Risk Assessment indicates that this activity can be safely carried out

RISK ASSESSMENT COMPLETED BY (student name(s)): William Harrison.

SIGNATURE(S): William Harrison

By ticking this box, I/we state that my/our project adheres to the listed criteria for this Category.

TEACHER'S NAME: Anna Pak Susie Skinner

SIGNATURE: [Signature] DATE: 10/1/21 17.8.21

scientific principle

Date: 9.8.21
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The air from the balloon powers the boat. The air comes out of the straw and pushes the boat in the opposite direction.

Steps to make the project

1. We drew a boat shape on polystyrene.
2. We cut out the boat shape with a knife.
3. We cut out the wedge on the back (for the straw to go into the water)
4. We connected the balloon to the straw with a rubber band.
5. We glued the straw to the boat with a glue gun.
6. We cut out an extra triangle bit of polystyrene to hold up the balloon.

my dad did all the cutting and gluing.

Problems and how I overcame them

1. The first glue we used was superglue - it ate through the polystyrene, so we started over again.
2. The second glue we used was PVA glue - it dissolved in water, so we then we then tried a glue gun and that worked.

3. one boat we made had the wedge cut into the centre of the back. The boat couldn't go around the edges of the tub with that design. So we made another boat where the wedge cut-out was on the right side, so that the boat would go in a circle around the edge of the tub.

How to operate

1. Empty the water into the tub.
2. Wipe the straw with the alcohol wipe.
3. blow up the balloon.
4. Set the boat in the tub to go around in an anti clockwise direction.

0547 - 017

Student(s):
William Harrison

Richmond Primary School

Coordinator:
School Phone:

Susie Skinner
08 8293 1863

Gender: M **Patent Sought:** N

Year Level: R-2 **Group Entry:** N **Students:** 1
Category: Models & Inventions

Project Title:
The Bubbler Boat

App code:
8054940

