

The Fourth Annual Fairvale

Lazy River Boat Race

Race Date: June 13th, 2012

Objective: Each student who enters will build a powered boat to compete in the Lazy River Boat Race. The boat that completes the race course in the fastest time wins. Participation is entirely optional and there are NO prizes – this is simply a fun and friendly competition.

Rules:

Note: All boat-making materials are the responsibility of the students who choose to participate.

1. **The Boat:** You can not use a commercially available/ toy boat. The hull of your boat can be made of anything you can get to float – wood, Styrofoam, waterproofed boxboard, plastic or light metal(aluminum). Other boat parts and motors can usually be found in most dollar stores. Your boat can be no longer than 50 cm and no wider than 20 cm. It must be able to float in less than 7 cm of water (use your tub for experimentation). Your boat can be powered by any source – however only one source of power may be used. For example, you can use any one of the following: a small electric motor, elastic bands, steam power, a mouse trap, wind power, etc. Parents are encouraged to participate in HELPING their children during the boat building process. The object of this exercise is to have fun while learning a little about power, force, draft and aerodynamics/drag.
2. **The River:** The river race course has four lanes - each 16 feet long by 25 cm wide and approximately 7-8 cm deep.
3. Boats must be completed and ready to launch when called to race. Racers must be ready when their names are called otherwise they will be disqualified from that heat.
4. Boats will be run in heats; four boats in each heat. The top two boats in each heat will move on to the next round until the fastest boat is identified. Each boat must be able to travel the full length of the course – 16 feet.

Any questions can be directed to Mr. Armstrong – in person or by e-mail at armstjo@nbed.nb.ca

Good Luck & Have Fun Building!

Some sites on toy boat building that might be helpful.

<http://www.sciencetoymaker.org/boat/index.htm>

<http://www.etsy.com/listing/52272614/rubber-band-powered-toy-paddle-speed>

http://www.ehow.com/how_6659797_instructions-building-toy-boats.html

<http://www.scribd.com/doc/49130535/Building-a-Steam-Powered-Toy-Boat>

http://www.solarnavigator.net/solar_model_boats.htm

<http://sci-toys.com/scitoys/scitoys/thermo/thermo.html>

http://www.ehow.com/how_7889289_make-boat-using-mousetraps-rubberbands.html

http://www.ehow.com/how_6500344_make-toy-boat-moves.html

http://www.ehow.com/how_6352431_make-self_propelled-toy-boat.html

<http://www.envirogadget.com/solar-powered/solar-powered-bottle-boat-kit/>

<http://www.stevespanglerscience.com/product/balloon-boat>

<http://www.youtube.com/watch?v=x5FeJuZrfPA>

http://www.ehow.com/info_8421655_ideas-make-balloonpowered-vehicles.html

<http://www.youtube.com/watch?v=uBm2uHk1mT8>

<http://www.youtube.com/watch?v=QR9WDp-KjWY&NR=1>

<http://www.youtube.com/watch?v=j9LcNsmfHS8&feature=related>

The Forth

Annual Fairvale

Lazy River Boat

Race

- Open to students in Grades 4 & 5.
- NO teams – you may work together but each participant must create their own boat

For more information see Mr. Armstrong's website at:

www.armstrong123.weebly.com

Then - click on either Grade 4 or Grade 5

-follow the Lazy River Boat Race link.

The Lazy River Race Track



