

IBP Balloon Car Challenge!



It's Simple... Who can make an air powered car that can drive the furthest? Ian Baillie has a challenge for you!

MATERIALS

Hint: Friction is a force that acts in an opposite direction to

Every package will contain: 1 Empty water bottle 4 plastic tops 3 Popsicle sticks 2 straws 1 pipe cleaner 1 Balloon Plus... you can use/add any fasteners you like (tape, glue, nails,

or screws)



BRAINSTORM

You will have to launch it from the gym floor. Your balloon car will use jet power to move! The stored air in the balloon pushes out creating thrust – the force that pushes the car forward. When the air from the balloon moves in one direction, it pushes the car in the other direction.

BUILD

adults to help! car, how about a sailboat, bike, or tricycle.

Design Question: What happens if you blow your balloon up too much, or it pops during the assembly, will you be able to fix it quickly?

TEST/COMPETE

Work with a partner and ask Does your vehicle drive along the ground? Bring it to Hint: It doesn't need to be a school for the January End of Month Assembly on January 29th at 10:30 am

CHILD **PARTNER PARTNER** to assemble, invent & engineer

Parent/Guardian. Date: