



## The STEM Explanation:

Friction is the force that resists motion between two objects or surfaces. When you put your boat in the water, friction prevents it from moving very much. After blowing up the balloon, attaching it to the straw, and releasing it, the air in the balloon travels through the straw and out the open end. This pushes the boat forward overcoming the friction of the water that is pushing back against it. The boat moves forward because the force of the released air pushing the boat is greater than the force of the friction that is resisting its movement.

## Career Connection:

*Structural engineers* are concerned with the design and construction of all types of structures such as bridges, boats, dams, tunnels, power plants, offshore drilling platforms, and space satellites. Structural engineers research the forces that will affect the structure and then develop a design that allows it to withstand these forces.

## Resource:

- <http://lifewithmoorebabies.blogspot.com/2012/09/balloon-boats.html>

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