

Answer on Question #46449 – Physics – Other

you are able to drink coca cola from the bottle using a straw due to?

Solution:

On the surface, drinking liquid from a straw appears to involve sucking the coca cola upward through the straw and into the mouth. However, within this seemingly simple act the basic principles of atmospheric or "air" pressure are demonstrated.

The suction through a straw is one circumstance that factors into the force of air on coca cola. When air is sucked from a straw in a drinking glass into a mouth, the force of air (air pressure) exerted on the coca cola in the straw is reduced. At the same time, the force exerted on the coca cola outside the straw remains constant. As the force of the coca cola outside the straw becomes greater than that inside, the coca cola is pushed upward through the cylinder and into the mouth.

Answer: due to pressure difference in our mouth and the bottle of coca cola.

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