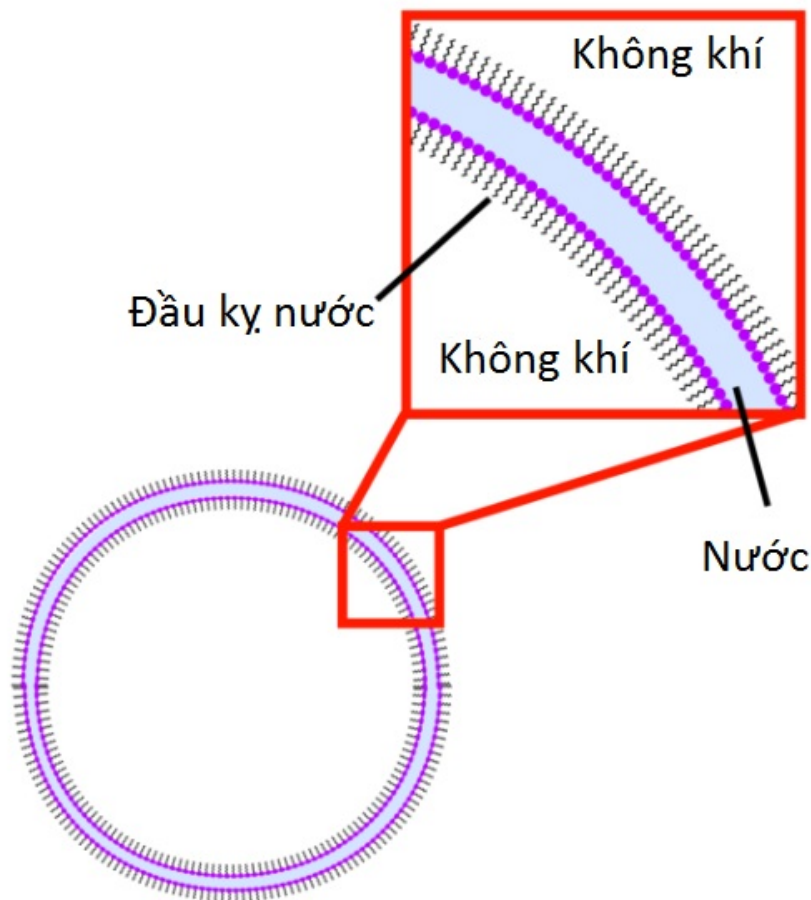


# Why does soap create bubbles?

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Soap is one of the indispensable items in every family. For many people, soap is also associated with childhood with fragile, shiny, rainbow-colored bubbles connecting to the sky. So do you know why soaps can form bubbles?

In life, soap is often used to wash hands, wash clothes . but few know that this detergent has been man-made and used in ancient Babylon since about 2,800 BC, about 5,000 years ago.



Structure of soap bubbles.

The soap molecules that we still use have two heads, a hydrophobic head and a water suction head. Soap molecules surround the water molecules with the head absorbing water towards the water molecule and the hydrophobic head towards the opposite side. Then, a thin layer of water sandwiched between two layers of soap molecules will form the bubble surface.

## But why is the soap bubble shaped?



Because the suction force at the surface of the bubble has molecules sticking together, creating surface tension and forming barriers against the air molecules in and out want to go through the bubble layer. In order for this fragile membrane to be able to prevent other air molecules from passing through it, it is expected to form a sphere to reduce the surface area of the structure.

Now, scientists have created wire frames molded into different shapes so that when immersed in soap solution, soap bubbles with shapes like cubes or pyramids are created.

1. Why can airplanes fly in the sky?
2. Why do you smash the glass bottle with your hand, the bottom part breaks?

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