

# Light Soda

## Carbonate your tongue

Take a drink of carbon dioxide gas.

### Materials:

- Dry ice
- Cup
- Cooler or other insulated container

### To do and notice:

Place some dry ice in a cooler and allow the carbon dioxide to sublimate for several minutes.

Slowly place a cup into the cooler of dry ice. Scoop upwards with the open side of the cup to capture the carbon dioxide gas.

Immediately place the cup to your lips and sip.

How does it taste?

### What's going on:

Dry ice is made of carbon dioxide. Dry ice sublimates instead of melts. This means that the dry ice goes from a solid to a gas and skips the liquid phase.

Carbon dioxide gas is colorless and heavier than air and will stay in the cup. When tipped to your lips and sipped, it will touch your tongue. Water in your tongue dissolves carbon dioxide gas into solution to make carbonic acid. This acid flavor causes the same taste sensation as soda water or carbonated water...the basis of most colas. With no useable calories this is truly a light soda.

