



## Challenger's Morning Science Segment:

February 20, 2017

**Topic:** Density

**Build:** Dancing Raisins

### Credit:

<http://www.letstalkscience.ca/programs-resources/activities/item/why-do-raisins-dance-in-soda-pop.html>

### Materials Needed:

Clear carbonated Soda / Clear Container / Raisins

**Make Raisins dance:** Fill a clear container with carbonated soda. Drop raisins, a few at a time, into the soda filled container. Watch raisins sink to the bottom, float to the top and gradually drop back to the bottom. Each raisin will “dance” around thru this cycle multiple times.

**The science [credit: <http://www.letstalkscience.ca/programs-resources/activities/item/why-do-raisins-dance-in-soda-pop.html>]:**

What makes the raisins dance up and down in the container? The key is the carbon dioxide in the carbonated soda. The carbon dioxide, moving around in the soda, collides with the raisins and starts to build up as bubbles on the raisins' surface. Once enough bubbles have built up, the gas and raisin are less dense than the raisin alone. The raisin then floats back to the surface. Soon the bubbles start to break, the total density increases, and the raisin crashes back to the bottom of the container. The process then starts all over again and causes the “dancing raisin effect.” Try the experiment with other materials such as beans, noodles and more!

**What's next at Challenger:** Challenger is hosting a Space Station 5K Race and Open House on Saturday, March 25, 2017. Sign up today to navigate thru the thrill of launching to space in this Bangor road race! FMI- [www.astronaut.org](http://www.astronaut.org)