

## High School Science Labs

### Aquatic Microorganisms

Use a Foldscope to explore the world of microscopic organisms in different water samples.



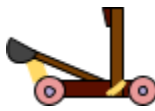
### Bug Race

Conduct an experiment testing the speed of different bugs and insects to complete a course YOU have designed!



### Catapult Capers

Apply your knowledge of transformation of energy and simple machines to design and build catapults.



### Baking Soda Mummification

Investigate how surface area to volume ratios, shapes, and water content of common fruits impacts the process of dehydration.



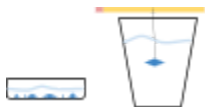
### Human DNA

Extract your own DNA from cheek cells using household materials, then observe it under a foldscope.



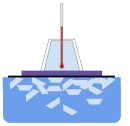
### Crystals

By dissolving non-iodized salt in water and waiting, a seed crystal will form which you can place in a supersaturated solution. Watch it grow a little bit more every day.



### Thermal Conductivity

Determine the thermal conductivity of different materials in an ice bath. Record change in temperatures, time, thickness, and more to use in calculations to further our investigation!



### Ice Cube Competition

Investigate the relationship between different insulative materials and their effectiveness at slowing the rate of ice cubes melting.



### Leaf Chromatography

Qualitatively measure the chlorophyll content in different leaves. The chlorophyll level will depend on the season too.



### Pill Bug Preferences

Design an experiment that tests one or two variables and pill bug responses.



### Quadrat Sampling

Ecology is the study of how organisms interact with one another and with their environment. Get out into the field and see what you can learn about ecosystems around Vancouver!



### Yeasty Beasties

Using a balloon to capture the gas yeast releases, compare and contrast the activity levels of different yeast sample

