



## Liquid Nitrogen Video Conference

### Pre-class experiments to be performed prior to the video conference

The unique aspects of video conferencing introduce new challenges when presenting science workshops and shows. Interactivity is paramount and as such we ask that your class have run some experiments prior to the video conference.

#### Experiment: Freeze lettuce

You will need:

- 1 iceberg lettuce leaf
- 1 plastic container and a freezer
- A student to demonstrate



1. Run this prior to the conference.
2. Place a lettuce leaf in front of the class. Have students note observations (flexibility, colour etc)
3. Place the lettuce leaf in a plastic box and store in a freezer overnight. Check the leaf the next day.
4. Have students discuss why the leaf may have changed in texture, colour, shape (etc).

#### Experiment: Supercool water

You will need:

- 4 bottles of very pure water, distilled water is best
- 1 bowl and a freezer
- Lots of patience - this can be a difficult experiment to reproduce!

1. Take the labels off the bottles of water.
2. Place the bottles in a freezer and leave undisturbed for several hours.
3. Once the bottles have cooled, gently remove them from freezer.
4. Shake one of the bottles and watch the ice crystals form instantly!
5. Try stirring one of the bottles with a straw, or perhaps adding a piece of ice or dirt to the solution.
6. Try carefully pouring the supercooled water into the bowl, can you produce the cool ice towers!



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