



## Liquid Nitrogen Video Conference

### Experiment materials for schools to have ready during the 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 some materials ready for experiments during the video conference. Whilst we may not use all of the materials listed, it will provide an opportunity for your students to do experiments rather than simply just watch a presentation.

Due to the need to keep the conference running at a reasonable pace, we suggest only a couple of students demonstrate each experiment to the rest of the class. If we don't use some of the materials, just run those experiments after the conference!

### Experiment: Expand air (practice before the conference)

You will need:

- Gloves and boiling water (have a kettle pre-boiled and ready to go during the conference)
- 1 glass 'Coke' bottle, 1 balloon, a clear plastic container and a container of cold water
- 1 funnel
- **Teacher demonstration only** during the conference (use gloves!).



1. Re-boil the kettle just before the demonstration
2. Place the balloon over the neck of the glass bottle.
3. Place the bottle in the clear plastic container.
4. Carefully pour boiling water over the glass bottle, continuing until the balloon expands
5. **SAFETY:** Make sure that students are not near the demonstration to avoid accidental scalding.
6. Place the bottle with the expanded balloon into the container of cold water and observe the results
7. Have the funnel on hand for a variation of this experiment that will be guided during the video conference

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