

EarthComm Earth's Fluid Spheres: Cryosphere and Your Community Activity 1

This investigation will help you to:

- The Unusual Properties of Ice
- Ice in the Atmosphere
- Frost Wedging
- Inquiring Further:

The Unusual Properties of Ice

- "Water and Ice" - MathMol - NYU/ACF Scientific Visualization Laboratory
This site compares the atomic structures of water and ice using text, color images, and movies.
- "Ice" - California Institute of Technology - Division of Geological and Planetary Sciences
This site covers the atomic structure of ice (including a review of hydrogen bonds) and looks at how the atomic structure influences how ice looks, flows, feels, etc.

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Ice in the Atmosphere

- "Questions and Answers About Snow" - National Snow and Ice Data Center
List of questions and answers about snow, including topics such as why snow is white, how its texture changes with temperature, and more.
- "Snow Crystals" - California Institute of Technology
Click on links on menu to cover early snow crystal observation, photo collections, snow crystal classifications, snowflakes grown in the laboratory ("designer snowflakes"), and a snow crystal primer that provides information on snow crystal physics.

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Frost Wedging

- Frost Wedging, by Michael Dallin, Rocky Mountain National Park

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Inquiring Further:

- Students will need a plastic milk jug, a measuring cup (to measure volume), water, and access to a freezer.

