

Lynx-Hare Tutorial

Ask the students to read the lynx-hare tutorial as a homework assignment before you begin a unit on qualitative modeling. Use the following questions, or your own questions, for a review of the material.

- 1) What effect does the lynx have on the hare? What effect does the lynx have on the willow? How do you represent these using the symbolic language of qualitative modeling?
- 2) Why do we call the circuit of interactions between the willow, hare, and lynx a stable relationship?
- 3) Most systems that contain simple predator-prey relationships are called resilient, why is this so?
- 4) On page 17 of the series of slides there are three different models shown, A, B, and C. Draw what you think would be the changes over time in each of the three under the conditions described (an increase in willow).