

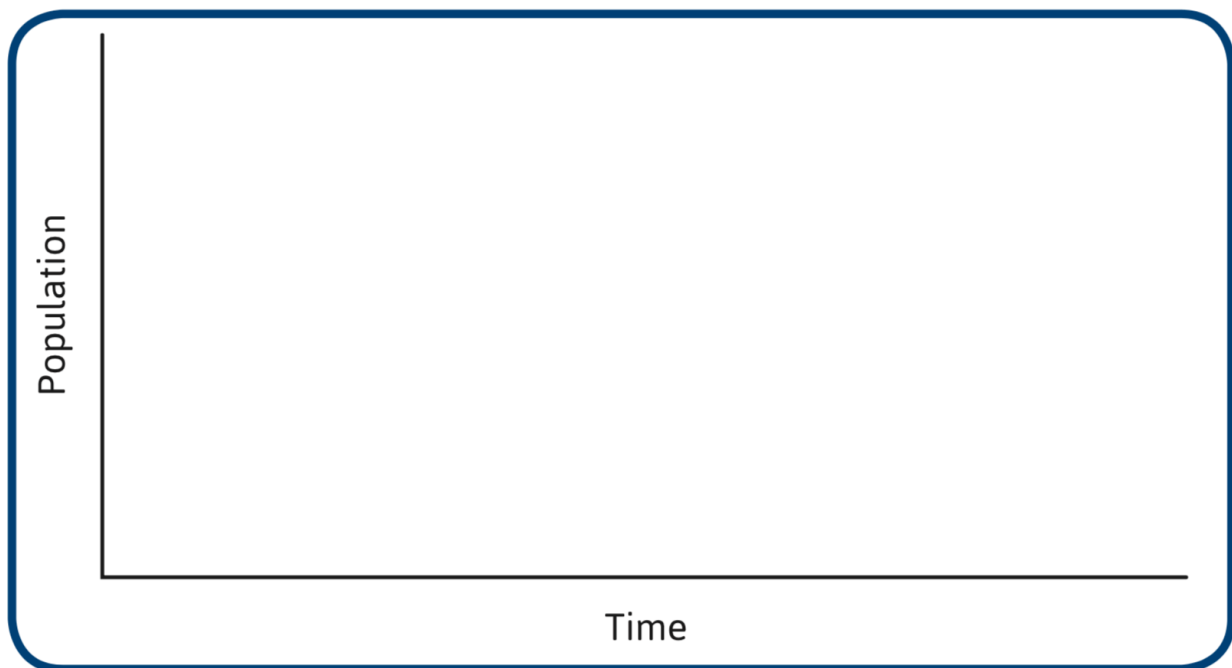
Activity 9.2 – Can all three populations survive?

What will we do?

We will create an ecosystem in the NetLogo model in which all three organisms are able to survive.

Procedure *Follow these directions!*

- ☐ Go to the net logo website and create a stable population where no organism dies out.
- ☐ Draw a graph that shows three stable populations of rabbits, foxes, and grass.
- ☐ Try different settings for the sliders in the model until you find a combination of settings that allows all three populations to survive for at least 500 years.



Data

Slider	Value (How many?)
Initial number of rabbits	
Initial number of foxes	
Percent grass	

How long did the model run with these settings?

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Analysis and Interpretation

After you have found settings that make the ecosystem stable, answer these questions:

1. What variable could you change that would make the ecosystem unstable?
(Variables are the things that you can change in your simulation.)

2. How would you change it? *(More or less?)*

3. How would that variable affect the survival of the population?