

## Modeling Project #3

Develop and analyze a model for populations of two different species that compete for the same resources in a fixed geographic location with limited resources. (You might think of this as populations of two bird species with the same food source and nesting requirements on an isolated island.) You should set up your model as a system of differential equations that includes parameters. Analyze the model to describe significant features of the solutions to the system. Describe ranges of the parameters for which features are similar. Draw conclusions or make predictions about the real-world situation.

The report is due on Wednesday, December 7.