

**ZMATH 2015d.00929**

**Cheng, Diana; Thompson, David**

**Endangered species: a population simulation.**

Ohio J. Sch. Math. 71, 16-19 (2015).

Summary: This article describes an activity which incorporates biology and mathematics at the secondary level. A hands-on simulation of a decreasing animal population is provided. Students collect their data, record it in a table, and analyze it using technological tools. The mathematics used in this activity includes rates; fitting functions to data; creating and interpreting linear, quadratic, and exponential functions; and using functions to solve real-world problems.

*Classification:* M60 U70 K80 K90

*Keywords:* mathematical applications; biology; population dynamics; simulation; percentage changes; equations; fitting a function to data; best fit; linear regression; quadratic regression; exponential regression; spreadsheets; graphics calculators; graph of a function