

Conservation 1404 - Chapter 8+, Community Ecology
Review of Pages 11, 161 – 170, and 178-179
“The Least You Should Know”

Vocabulary:

Doubling Time
Rule of 70
Population dynamics
Age structure
Biotic potential
Intrinsic rate of increase (r)
Environmental resistance
Carrying capacity (K)
Exponential growth = geometric growth
Logistic growth
Population density
Density –independent controls
Density-dependent controls
Irrupt
Cyclic fluctuations = boom-or-bust cycles
Asexual reproduction
 Sexual reproduction
r-selected species
K-selected species
Survivorship curve
Age-structure diagrams

Concepts:

How to use the Rule of 70 to estimate doubling time, pg 11
How to read and make predictions based on age-structure diagrams pg 178-179.
 Three categories, pre-reproductive, reproductive and post-reproductive.
 Males on left, females on right.
 Roket-shaped is stable,
 A narrow base means the population is declining
 A wide base means the population is expanding rapidly
 This expansion will occur even if women have only one or two children, and understand why this is so.
 Which part of the world has human populations with a large pyramidal base, and what that means.

