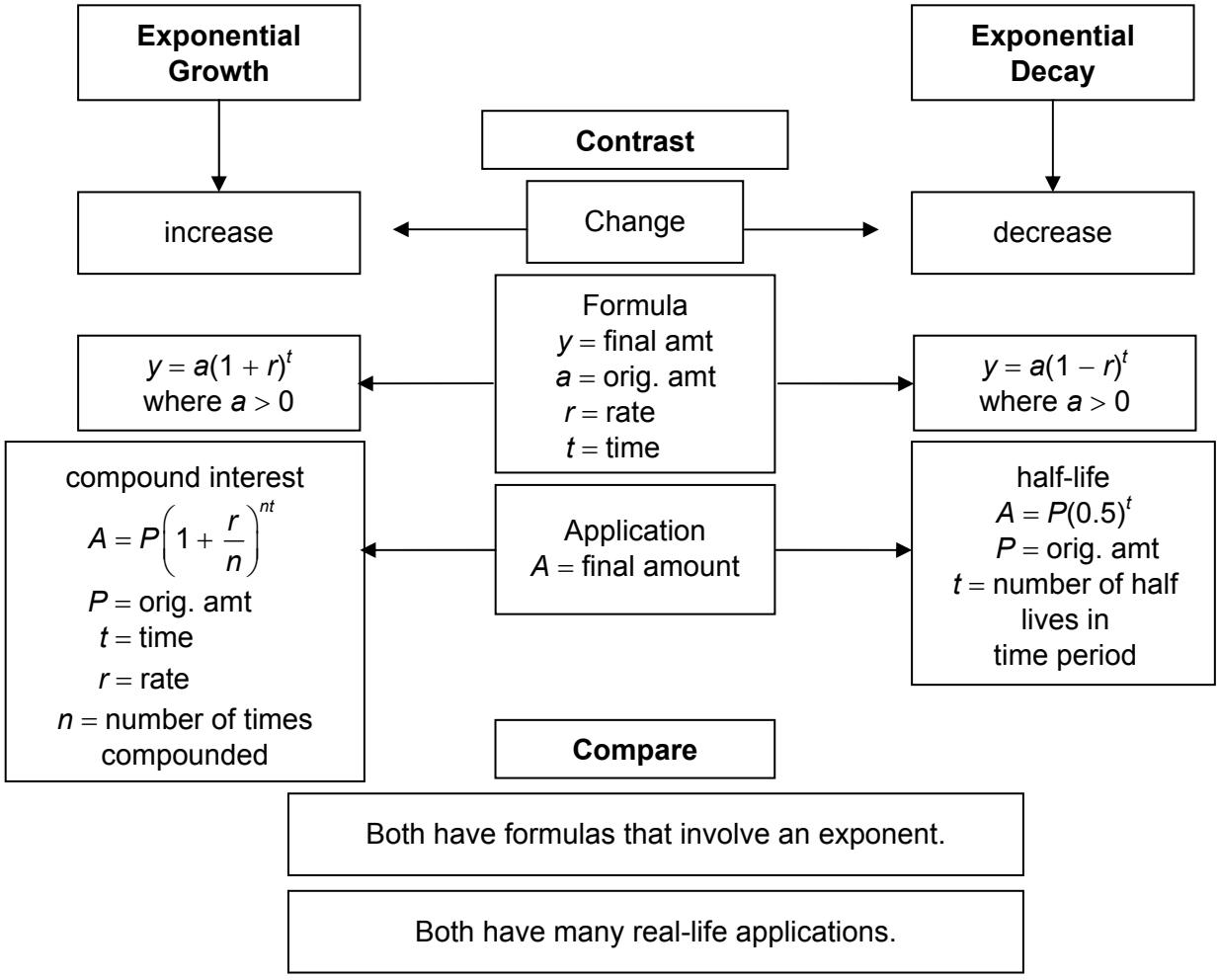
Name _____ Date _____ Class _____

LESSON 16-2

Modeling Exponential Growth and Decay

Reading Strategies: Analyzing Information

The diagram below highlights important concepts of exponential growth and exponential decay.



For each situation: a. identify it as exponential growth or exponential decay, and b. use a formula to calculate the answer.

1. The bird population of 1250 birds is decreasing by 3% each year. Find the bird population after 6 years.

   a. _____ b. _____

2. A town's population was 3800 in 2005 and is growing at a rate of 2% every year. Find the town's population in 2025.

   a. _____ b. _____

3. $800 is invested at a rate of 4% and is compounded monthly (12 times/year). Find the balance after 10 years.

   a. _____ b. _____