Bell Ringer: According to the textbook, how effective has environmental legislation been at reducing pollution levels since the 1960’s?

a) Perfectly effective

b) somewhat effective

c) there has been little change in pollution

d) pollution is now somewhat worse than before

e) the legislation has had no benefits at all.

Answer: b)

¨Since 1970

¤Six air pollutants have dropped by 25% (not CO2)

¨Since 1990

¤wet sulfate levels decreased by 33%

¨As of 2008

¤92% of US had healthy drinking water (up from 75% in 1993)

¨As of 2006

¤45% of municipal waste is burned as waste-to-energy or recovered for recycling

¨As of 2007

¤Human exposure to hazardous waste sites identified in 1969 is below 93%

Complete Unit 1 exam. (use scantron sheet. Void question #7)

When done, assign chapter 3 reading and questions.

Look at figure 3.10 page 50

Discuss 10% rule and trophic levels.

Look at figure 3.11 food web

Go outside and attempt to find interacting species of various trophic levels. Students should create a food web showing these interactions AS WELL as the energy transferred (10% rule). Assume the producers (1st trophic level) start with 1,000 calories of energy.

Tape food webs to classroom wall.

Exit bell ringer: If an acorn has 100 calories of energy and is eaten by a chipmunk, which is eaten by a rattlesnake, which is eaten by an Eagle…..how many of the original calories are retained by the Eagle?

100 x .10 = chippy

x .10 = rattler

x .10 = Eagle

0.1 calories in Eagle (reason 492 you shouldn’t eat Eagles…just eat the acorns)

