SC.912.L.16.10 Evaluate the impact of biotechnology on the individual, society, and the environment, including medical and ethical issues.

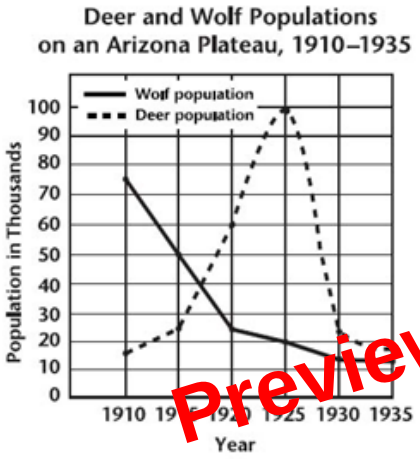
While genetic engineering has positive benefits, there are also concerns associated with widespread use of genetic engineering in agriculture. If many farmers begin to plant more genetically modified crops that have an increased tolerance to insects, which of the following may result?

A. an increase in the use of pesticides
B. a decrease in genetic diversity of the crops
C. an increase in the contamination of the water supply
D. a decrease in crop productivity on these treated fields

Module 4: Earth's Diversity - Practice

SC.912.N.1.1 – Define a problem based on a specific body of knowledge and follow steps of the scientific method.

The graph below shows deer and wolf population data from 1910 to 1935.



Which of the following is a conclusion that may be drawn from the data?

A. A deer population is greatest when the wolf population is the smallest.
B. A deer population may flourish even if a wolf population is low.
C. The deer population has eliminated the wolf population.
D. The community is the healthiest when the deer and wolf populations are equal.

SC.912.L.17.5 – Analyze how population size is determined by births, deaths, immigration, emigration, and limiting factors that determine carrying capacity.

The number of pythons found throughout Everglades National Park has increased in recent years. These huge snakes are not native to Florida and are believed to have been released into the wild by pet owners. Wildlife biologists have initiated attempts to capture and remove these pythons. Which statements **best** explains the biologists' reason for removing these pythons from the Everglades?

A. The pythons could upset the territorial boundaries of native organisms.
B. The pythons could adapt to overcome diseases common to native snakes.
C. The pythons could prey on native organisms and cause native populations to decline.
D. The pythons could begin to interbreed with snakes and produce a more successful species.

SC.912.L.17.9 – Use a food web to identify and distinguish producers, consumers, and decomposers.

A team of ecologists observed feeding patterns of several populations in the desert. The energy pyramid shown below depicts the feeding patterns the ecologists observed.