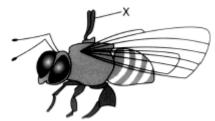
DO NOW: Answer the following Regents questions.

1. The accompanying diagram represents a species of bee that helps one type of orchid plant reproduce by carrying pollen on structure X from one orchid flower to another. Pollination by this species of bee is the only way the orchid can reproduce.

If this bee species dies out, this orchid species would most likely



1. cease to exist

- 3. flower at a different time of year
- 2. find another animal to carry the pollen 4. develop another way to reproduce
- 2. A particular species of unicellular organism inhabits the intestines of termites, where the unicellular organisms are protected from predators. Wood that is ingested by the termites is digested by the unicellular organisms, forming food for the termites. The relationship between these two species can be described as
 - 1. harmful to both species

3. beneficial to both species

2. parasite/host

- 4. predator/prey
- 3. Base your answers on the accompanying passage and on your knowledge of biology.

... Corals come in about 1,500 known species—from soft swaying fans to stony varieties with hard skeletons that form reef bases. They are made up of polyps, tiny animals that live in colonies and feed at night on microscopic plants and creatures. The coral's surface is the living part, with color infused by single-celled algae called zooxanthellae that live in polyp tissue. The algae act like solar panels, passing energy to the coral as they photosynthesize while feeding on the coral's waste.

Extremely sensitive, corals survive in a narrow range of temperature, sunlight and salinity. An uncommonly severe El Niño in 1998 raised ocean temperatures and changed currents, causing bleaching that devastated reefs worldwide. Scientists say parts of the Indian Ocean lost up to 90 percent of corals. The bleaching struck reefs around the Persian Gulf, East Africa, Southeast Asia and the Caribbean. Some recovered. Many died. . . .

Source: Associated Press, December 2001

The relationship between the polyps and the zooxanthellae can best be described as

1. negative for both

3. positive for both

2. neutral for both

4. negative for one and positive for the other

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	hich organism benefits, and how does it benefit?
■ W	hich is harmed, and how is it harmed?

Class Activity: Radiolab Parasites: Are they evil, or

1.	Describe how the parasitic wasp "zombifies" the cockroach.
2.	What does the wasp do to the cockroach once it subdues it?
3.	What do the wasps' babies do to the cockroach?
4.	What did Darwin say about parasitic wasps?
5.	In your opinion, are parasitic wasps evil, or awesome? Why?
e	case FOR hookworm
6.	Case FOR hookworm What body system malfunctions to cause allergies and other diseases, such as asthma, multiple sclerosis, and crohn's disease? What facts made Jasper Lawrence decide that he would like to obtain hookworm?
6.7.	What body system malfunctions to cause allergies and other diseases, such as asthma, multiple sclerosis, and crohn's disease? What facts made Jasper Lawrence decide that he would like to obtain
6.7.8.	What body system malfunctions to cause allergies and other diseases, such as asthma, multiple sclerosis, and crohn's disease? What facts made Jasper Lawrence decide that he would like to obtain hookworm?