Worms and Mollusks

Section 2 Roundworms and Rotifers

← Main Idea	(Details
	Scan Section 2 of the chapter. Use the checklist as a guide.
	Read all the section titles.
	Read all boldfaced words.
	\square Look at all illustrations and read the captions.
	Think about what you already know about worms.
	Write three facts that you discovered about roundworms and rotifers.
	1. Accept all reasonable responses.
	2
~Review—	3
Vocabulary	Use your book or dictionary to define cilia.
cilia	short, numerous projections that look like hairs
New——	
Vocabulary	Use your book or dictionary to define each term. Then write a sentence using the word to show its scientific meaning.
hydrostatic skeleton	fluid within a closed space that provides rigid support for muscles
nyurostatic sketeton	to work against
trichinosis	a disease caused by the roundworm Trichinella that can be ingested
	in raw or undercooked pork, pork products, or wild game

Section 2 Roundworms and Rotifers (continued)

Details

Body Structure of Roundworms

I found this information on page ______.

SE. pp. 731–733 RE, pp. 298–299 **Organize** information about roundworms by filling in the chart below. Accept all reasonable responses.

Phylum: Nematoda	Symmetry: bilateral		
Habitats: everywhere from marine and freshwater habitats to land; some are parasites on plants and animals			
Body shape: cylindrical, unsegme	ented, tapered at both ends		
Food: some are predators on tiny invertebrates, others feed on decaying plant and animal matter, some feed on living hosts			
Digestive tract of free-living form the mouth and wastes exiting thro			
Circulatory and respiratory organ diffusion for moving nutrients and			
Stimuli they can detect: touch and chemicals, some can detect differences between light and dark			
Reproduction method: sexual	Type of fertilization: internal		

Analyze the movement of roundworms.

Roundworm Movement		
Thrashing Movement	They have muscles that run the length of their bodies. As one muscle contracts, another relaxes, causing a thrashing movement.	
Role of Pseudocoelom	It acts as a hydrostatic skeleton. The fluid within the pseudocoelom provides rigid support for the muscles to work against.	

Section 2 Roundworms and Rotifers (continued)

^Main Idea⁻

\subset Details $\overline{}$

Diversity of Roundworms

I found this information on page ______.

SE, pp. 733-735 RE, pp. 299-300

Identify the roundworm that matches each description.

Animal	Description
pinworm	most common worm parasite in humans in the U.S.
hookworm	enters the human body through bare feet
Ascaris	world's most common roundworm infection
Trichinella	carried by infected, undercooked pork
nematode	causes plant diseases
filarial worm	mosquito acts as intermediate host

Identify a negative and a positive effect of nematodes on plants.

Negative: By attaching themselves to plant roots, nematodes can cause the plants to sicken.

Positive: If added to soil infected with crop pests, nematodes can control the spread of the pest insects.

Rotifers

I found this information on page ______.

SE, p. 736 RE, p. 300 **Analyze** the cilia of rotifers by completing the graphic organizer below.



CONNECT

Compare the digestive tracts of roundworms with those in free-living flatworms. What does the comparison suggest about the probable evolutionary history of roundworms?

Accept all reasonable responses. Free-living flatworms have a digestive tract with only one opening; wastes are ejected through the mouth. Roundworms have digestive tracts with two openings; wastes are ejected through the anus. The digestive tract of roundworms is more complex, so roundworms probably appeared later than flatworms.