

## 27-2 Roundworms

Members of the phylum Nematoda, also known as roundworms, are among the most numerous of all animals. It is difficult to imagine how many live around us. A single rotting apple can contain as many as 90,000 roundworms. A cubic meter of garden soil can be home to more than a million!

### What Is a Roundworm?

Roundworms are slender, unsegmented worms with tapering ends. They range in size from microscopic to a meter in length. Most species of roundworms are free-living, inhabiting soil, salt flats, aquatic sediments, and water, from polar regions to the tropics. Many others are parasitic and live in hosts that include almost every kind of plant and animal.

Like flatworms, roundworms develop from three germ layers. However, roundworms have a body cavity between the endoderm and mesoderm tissues. Because this cavity is lined only partially with tissue derived from the mesoderm, it is called a **pseudocoelom** (sco-doh-SKEE-um), which means “false coelom.” Observe the pseudocoelom in **Figure 27-7**.

Also, unlike most flatworms, roundworms have a digestive tract with two openings. This body plan is often called a tube-within-a-tube. The inner tube is the digestive tract, and the outer tube is the body wall. This arrangement makes digestion in roundworms very different from that in flatworms because food moves in one direction through the digestive tract. Any material in the food that cannot be digested leaves through the anus. The **anus** is the posterior opening of the digestive tract.

**Roundworms are unsegmented worms that have pseudocoeloms and digestive systems with two openings—a mouth and an anus.**



### Guide for Reading



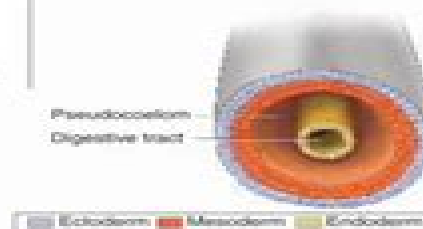
#### Key Concepts

- What are the defining features of roundworms?
- What roundworms are important in human disease?

**Vocabulary**  
pseudocoelom  
anus

#### Reading Strategy:

**Using Visuals** As you read, write a statement explaining how each illustration or photograph reinforces or enhances the content of the section.



**Figure 27-7** Roundworms such as hookworms are unsegmented worms that have a pseudocoelom and a digestive system with a mouth and an anus. Roundworms develop from three germ layers, and a pseudocoelom forms between the endoderm and mesoderm layers.



### SECTION RESOURCES

#### Print:

- **Teaching Resources**, Lesson Plan 27-2, Adapted Section Summary 27-2, Section Summary 27-2, Worksheets 27-2, Section Review 27-2
- **Reading and Study Workbook A**, Section 27-2

#### Technology:

- **iText**, Section 27-2
- **Transparencies Plus**, Section 27-2

## Section 27-2

### 1 FOCUS

#### Objectives

- 27.2.1** Describe the defining features of roundworms.
- 27.2.2** Describe form and function in roundworms.
- 27.2.3** Identify roundworms that are important in human disease.

### Guide for Reading

#### Vocabulary Preview

Have students write the Vocabulary words, dividing each into its separate syllables as best they can. Remind students that each syllable usually has only one vowel sound. The correct syllabifications are pseu•do•coe•lom and a•nus.

#### Reading Strategy

Before students read, have them skim the section to find the boldface Key Concepts. Ask students to copy the sentences onto separate sheets of paper. Then, as they read, they should make notes of details that support each Key Concept.

### 2 INSTRUCT

## What Is a Roundworm?

#### Use Visuals

**Figure 27-7** Direct students' attention to the cross section of a roundworm. Then, have them compare this cross section with the one shown in **Figure 27-1** on page 683. Ask: What is the main difference between the body plan of a flatworm and the body plan of the roundworm? (In a flatworm, there is no space between the endoderm tissue and the mesoderm tissue. In the roundworm, there is a space between those two tissues.) Point out that this space, or body cavity, is the pseudocoelom of the roundworm. Ask: What is “false” about a pseudocoelom? (A pseudocoelom is “false” because it is only partially lined with mesoderm tissue.) What part of the pseudocoelom is not lined with mesoderm tissue? (The inner boundary of the cavity) **L2 L3**

## Section 27 2 Roundworms Answers

**Starr, John D. Jackson**



## Section 27 2 Roundworms Answers:

**Holt Biology** Rob DeSalle, Holt Rinehart and Winston, 2008 Holt Biology Student Edition 2008 *Diversity of Living Things Gr. 4-6* Pat Urie, This resource is divided into four categories classification processes of life under the microscope and the animal kingdom Students will classify organisms and observe the similarities and differences among them Includes skill lists teacher suggestions resource lists evaluation sheets and answer key 35 activities 96 pages **Biology** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003 **Biolog**, 1998 **Science in Your World: Teacher edition** Jay K. Hackett, 1991 **Your Total ASVAB Solution** Wallie Walker-Hammond, 2011-09-09 Attention Military Applicants REA has Your Total ASVAB Solution Your Total ASVAB Solution Helps You Score High on the ASVAB for Better Military Placement 7th Edition If you're seeking a high ASVAB score for a better position within the military or looking to get the minimum required score for military acceptance REA has Your Total ASVAB Solution Prepared by an educational testing expert each comprehensive review chapter covers all the skills tested on the ASVAB including communication arithmetic and technical skills Each chapter includes practice drills with answer explanations ASVAB test tips and subject specific sidebars that boost your knowledge The book contains a diagnostic test plus three full length practice tests that replicate the actual format and structure of the ASVAB so you can practice for real before test day Detailed explanations of answers are included for every test question allowing you to pinpoint your strengths and weaknesses and focus on areas in need of further study Our complete ASVAB test prep package also offers an 8 week study schedule and test taking strategies for succeeding on the exam This civil service vocational test prep is perfect for individuals seeking a high ASVAB score for a better position within the military and for those seeking to get the minimum required score for military acceptance It explains how military and other career counselors use the ASVAB Your Total ASVAB Solution is also helpful for individuals taking the ASVAB as a diagnostic test for further education or career planning More than 40 million people have taken the ASVAB since 1968 If you're next in line be prepared with Your Total ASVAB Solution **Sg and Wbk Biology CA 5E** Starr, John D. Jackson, 2002-02 A true workbook that requires students active participation Organized to match sections in the text for ease of use

**Glencoe Science**, 2002 **Tropical Surgery and Diseases of the Far East** John Rich McDill, 1918 *NEET UG Biology Paper Study Notes | Chapter Wise Note Book For NEET Aspirants | Complete Preparation Guide with Self Assessment Exercise* EduGorilla Prep Experts, 2022-09-15 Best Selling Book in English Edition for NEET UG Biology Paper Exam with objective type questions as per the latest syllabus Increase your chances of selection by 16X NEET UG Biology Paper Study Notes Kit comes with well structured Content Chapter wise Practice Tests for your self evaluation Clear exam with good grades using thoroughly Researched Content by experts *NEET 5000+ Chapter-wise SURESHOT Graded Problems in Physics, Chemistry & Biology 2nd Edition* Disha Experts, 2019-11-14 **SCIENCE FOR NINTH CLASS PART 3 BIOLOGY** LAKHMIR SINGH, A series of six books for Classes IX and X according to the CBSE syllabus Each class divided into 3 parts

Part 1 Physics Part 2 Chemistry Part 3 Biology      Student Workbook for Laboratory Procedures for Medical Office Personnel MaryAnn Woods,1998 This superb companion to Stepp Woods Laboratory Procedures for Medical Office Personnel is custom designed to maximize understanding of the knowledge needed in the laboratory For every chapter in the main text this essential resource contains matching exercises that strengthen vocabulary short answer questions that test knowledge and critical thinking problems that apply to real life situations      Catalog of Copyright Entries. Part 1. [B] Group 2. Pamphlets, Etc. New Series Library of Congress. Copyright Office,1923      **National Stockman and Farmer** ,1916

**Year Book of General Surgery** ,1918      General Surgery ,1918      Microbiology and Infection Control for Health Professionals Gary Lee,Penny Bishop,2012-11-07 The fifth edition retains all the strengths that have made Microbiology and Infection Control for Health Professionals a best selling title A sound scientific orientation Continual application to the clinical setting Coverage of emerging and re emerging infectious diseases Current statistical information of disease patterns Up to date terminology An emphasis on Australian and New Zealand data and clinical settings A central theme of highlighting the relevance of microbiology to patient care Full colour photographs and illustrations throughout      **Notices of Judgement Under the Federal Food, Drug, and Cosmetic Act ... Drugs and Devices** United States. Food and Drug Administration,1949      Fur News and Outdoor World ,1927

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