

Focus

Overview

Before beginning this section review with your students the objectives listed in the Student Edition. This lesson describes the similarities and differences between protostome and deuterostome development and introduces students to the groups of organisms that show each of these developmental patterns. Students will study echinoderm structure and function and review examples of several different groups of echinoderms.

Bellringer

Ask students to list the names of as many non-fish marine organisms as they can think of. (Most will be either mollusks or echinoderms.)

Motivate

Demonstration

GENERAL

Bring in several preserved or dried specimens of echinoderms such as sea cucumbers, sea stars, and sand dollars. You can supplement these specimens with pictures in books. Allow students to inspect them and come up with as many common characteristics as they can. List those characteristics on the board or overhead, and refer to the list as you teach the specific characteristics.

Visual TAKS 2 Bio BC

Objectives

- Compare the developmental pattern found in protostomes with that found in deuterostomes. BC TAKS 2
- Describe the major characteristics of echinoderms. BC TAKS 2
- Summarize how the sea star's water vascular system functions. 7B TAKS 2

Key Terms

blastopore
protostome
deuterostome
coelile
water-vascular system
skin gill

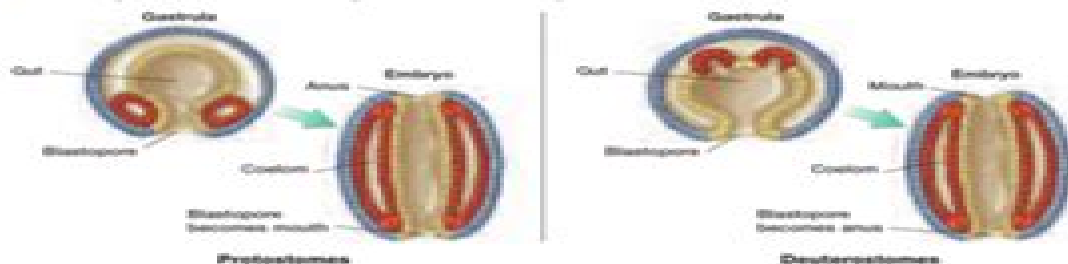
Animal Development

If you have been to a saltwater aquarium, you're sure to have seen echinoderms, which are spiny invertebrates that live on the ocean bottom. How could echinoderms like the brittle star shown on the first page of this chapter be related to animals such as chordates, which are primarily vertebrates? The answer lies in their early development. As an embryo develops, it goes through a gastrula stage. As shown in Figure 1, a gastrula has an opening to the outside called the **blastopore**. In acoelomate animals, the mouth develops from or near the blastopore. This pattern of development also occurs in some coelomate animals, such as annelids, mollusks, and arthropods. Animals with mouths that develop from or near the blastopore are called **protostomes**.

Some animals follow a different pattern of development. In phyla Echinodermata and Chordata, the anus—not the mouth—develops from or near the blastopore. (The mouth forms later, on another part of the embryo.) Animals with this pattern of development are called **deuterostomes**, also shown in Figure 1. If you know the origin of these two terms, it's easy to remember the differences between the two developmental patterns. The term **protostome** is from the Greek *protos*, meaning "first," and *stoma*, meaning "mouth." The prefix *deutero-* is from the Greek *deuteros*, meaning "second." In deuterostomes, the anus develops first and the mouth develops second.

Figure 1 Embryonic development

The development of an animal embryo follows one of two patterns.



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Chapter 2arthropods And Echinoderms Section Review 1

Peipei Pang



Chapter 2arthropods And Echinoderms Section Review 1:

Prentice Hall Science Series, 1994 Prentice-Hall Staff,1993

Parade of Life ,1993

Chapter Resource 31

Echinoderms/Invertebrates Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **Essentials of Biology** Holt Rinehart & Winston,1998 **Glencoe Science** ,2002 **Resources for Teaching Middle School Science**

Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents **Prentice Hall Science Explorer: Teacher's ed** ,2005 **Life Science, Grades 6-7** Tony Wright,1994-07-13 *Harcourt Science: Physical science [grade] 6, units E and F, teacher's ed* ,2000 **Harcourt Science** HSP,1999-04 Adopted by Rowan Salisbury Schools **Harcourt Science:**

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,2002 **Glencoe Life Science** McGraw-Hill/Glencoe,1996-07 *Selected Water Resources Abstracts* ,1990-07

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