

## Starfish Dissection

### Procedure 2: Self-Guided Starfish Dissection

**Materials:** Preserved starfish, dissecting pan, scissors, scalpel, forceps, T-pins, pencil, lab apron, safety glasses

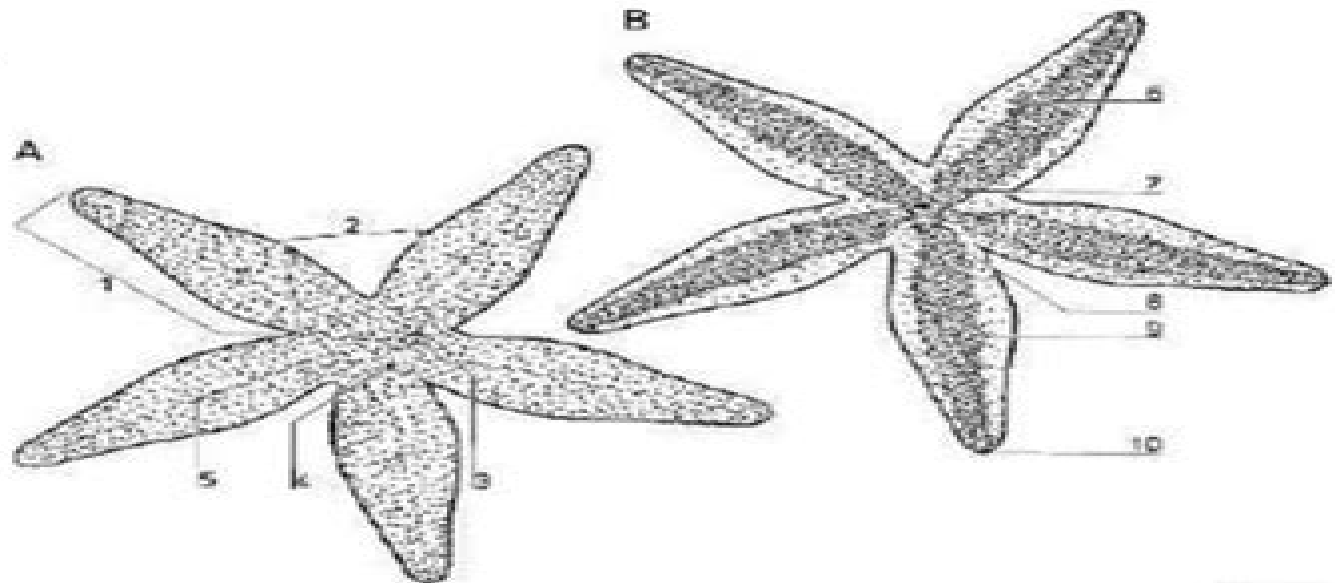
#### Procedure (Aboral Surface):

1. Obtain a preserved starfish and rinse off preservative with tap water.
2. Place the starfish in the dissecting pan with its dorsal or aboral (top) surface upward.
3. Observe the starfish and determine its **symmetry**. \_\_\_\_\_
4. Locate the **central disc**. Count and record the number of arms or rays the starfish has. \_\_\_\_\_
5. Locate the small, round hard plate called the **madreporite** on top of the central disc. Water enters through this into the water vascular system. Label the **central disc**, **arms**, and **madreporite** on **Figure 1A**.
6. The **anus**, for excretion following digestion, is a smaller opening right next to the **madreporite**. Label this on **Figure 1A**.
7. Feel the upper surface of the starfish for **spines**. These spines protect the starfish and are part of their **internal skeleton**. Label this on **Figure 1A**. Between each spine are **skin gills**. These are pores that allow the starfish to take in oxygen for cellular respiration.

Figure 1: A = Aboral Surface, B = Oral Surface

#### Procedure (Oral Surface):

8. Turn the starfish over to its ventral or oral surface (underside).
9. Look at the tip of each arm and find the **eyespot**. Label this on **Figure 1B**.
10. Locate the **mouth** in the center of the central disc. Find the ring of **oral spines** surrounding the mouth. Label these structures on **Figure 1B**.
11. Find the groove that extends down the underside of each arm. This is called the **ambulacral groove**. Label this on **Figure 1B**.
12. Feel the numerous, soft **tube feet** inside each groove. These are part of the **water vascular system** & aid in movement and feeding. Label these on **Figure 1B**.



# Starfish Dissection Questions Answers

**District of Columbia. Board of  
Education**



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Biology ,1998      **Turtox News** ,1929      *Educators Guide to Free Internet Resources* Educators Progress Service,2005-04 To provide our customers with a better understanding of each title in our database we ask that you take the time to fill out all details that apply to each of your titles Where the information sheet asks for the annotation we ask that you provide us with a brief synopsis of the book This information can be the same as what may appear on your back cover or an entirely different summary if you so desire      Zoology: Practical Buel Preston Colton,1906      **Zoology** Buel Preston Colton,1903      *Zoology, descriptive and practical* Buel Preston Colton,1903      **The Developmental and Reproductive Biology of a Brooding Starfish, Leptasterias Hexactis (Stimpson).** Fu-Shiang Chia,1967      *Manual of Environmental Microbiology* Cindy H. Nakatsu,Robert V. Miller,Suresh D. Pillai,2016-05-02 The single most comprehensive resource for environmental microbiology Environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research The Manual of Environmental Microbiology Fourth Edition provides comprehensive coverage of this critical and growing field Thoroughly updated and revised the Manual is the definitive reference for information on microbes in air water and soil and their impact on human health and welfare Written in accessible clear prose the manual covers four broad areas general methodologies environmental public health microbiology microbial ecology and biodegradation and biotransformation This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community Specifically this new edition of the Manual Contains completely new sections covering microbial risk assessment quality control and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology      *Bulletin* ,1902      *University of the State of New York Bulletin* ,1902      **The St. Andrews University Calendar for the Year ...** University of St. Andrews,1900      **Reconceptualizing the Literacies in Adolescents' Lives** Donna E. Alvermann,Kathleen A. Hinchman,David W. Moore,Stephen F. Phelps,Diane R. Waff,2007-07-10 Reconceptualizing the Literacies in Adolescents Lives Second Edition focuses on exploring the impact of young people s identity making practices in mediating their perceptions of themselves as readers and writers in an era of externally mandated reforms What is different in the Second Edition is its emphasis on the importance of valuing adolescents perspectives in an era of skyrocketing interest in improving literacy instruction at the middle and high school levels driven by externally mandated reforms and accountability measures A central concern is the degree to which this new interest takes into account adolescents personal social and cultural experiences in relation to literacy learning In this new edition of

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,1909 **New York State Education Department Bulletin** ,1905 *Academic Examination Papers for the Academic Year ...* ,1902 Hello I Want to Die Please Fix Me: Depression in the First Person Anna Mehler Paperny,2020-03-31 An engrossing memoir meets investigative report that takes a fresh frank look at how we treat depression Depression is a havoc wreaking illness that masquerades as personal failing and hijacks your life After a major suicide attempt in her early twenties Anna Mehler Paperny resolved to put her reporter s skills to use to get to know her enemy setting off on a journey to understand her condition the dizzying array of medical treatments on offer and a medical profession in search of answers Charting the way depression wrecks so many lives she maps competing schools of therapy pharmacology cutting edge medicine the pill popping pitfalls of long term treatment the glaring unknowns and the institutional shortcomings that both patients and practitioners are up against She interviews leading medical experts across the US and Canada from psychiatrists to neurologists brain mapping pioneers to family practitioners and others dabbling in strange hypotheses and shares compassionate conversations with fellow sufferers Hello I Want to Die Please Fix Me tracks Anna s quest for knowledge and her desire to get well Impeccably reported it is a profoundly compelling story about the human spirit and the myriad ways we treat and fail to treat the disease that accounts for more years swallowed up by disability than any other in the world If you or someone you know is struggling with suicidal thoughts help is available Contact the National Suicide Prevention Lifeline at 800 273 8255 *Bulletin* American Medical Association,1912 **American Medical Association Bulletin** American Medical Association,1912 Report District of Columbia. Board of Education,1900 *Report of the*

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