



EXTERNAL ANATOMY OF THE CRAYFISH



PRE-LAB QUESTIONS:

1. Crayfish belong to the Kingdom Animalia, the Phylum Arthropoda, and the subphylum Crustacea.
2. List three characteristics that all arthropods share.
 - a. Exoskeleton
 - b. Jointed Appendages
 - c. Segmented bodies
 - d. Open circulatory system
3. Name two other animals in the same phylum as a crayfish.
 - a. Shrimp, lobsters, barnacles, crabs
 - b. _____

EXTERNAL ANATOMY:

4. Locate the 1st, 2nd, and 3rd **MAXILLIPEDS**. These appendages are used for manipulating food. (The 3rd maxilliped is the largest and topmost one, the 2nd is underneath, and the 1st is underneath the 2nd)
5. Locate the **MANDIBLE** (jaw) which lies underneath the maxillipeds. This structure should be hard and difficult to move. What difference do you notice between the crayfish and the human jaw?

6. Locate the two large antennae and the smaller **antennules** that branch from the base. The **ANTENNAE** are sense organs (touch, taste, balance)
7. Locate the **EYES**, which extend from two stalks called pedicles.
8. The body of the crayfish consists of a **cephalothorax** (fused head and thorax). The cephalothorax is encased in an armor called a **CARAPACE**.
9. Remember that arthropods have a segmented body, bend the crayfish and notice it bend between the **abdomen** and the cephalothorax.
10. Locate the **CHELIPEDS** (the claws). Gently manipulate the cheliped to determine the direction in which the appendage can bend. How many joints are on a single cheliped?

Teachers Guide For Crayfish Dissection Crayfish Answers

Puja Mehta



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Biology ,1998 **Teachers' Handbook for Laboratory Manual Accompanying Smallwood, Reveley, and Bailey's New Biology** Harlow Bishop,1934 *Biology Teacher's Guide* John H. Rosengren,1968 *The Science Teacher* ,1993 SCC Library has 1964 cur **Christian Home Educators' Curriculum Manual** Cathy Duffy,1997-11 Crustacean Experimental Systems in Neurobiology Konrad Wiese,2012-12-06 This book represents Part 2 of a venture started by distinguished neuroscientists to visualize and advertise the experimentally advantageous preparations of the crustacean nervous system The advantage is a combination of ease of dissection of key structures and the possibility of repeatedly accessing identified individual cells to measure the detailed response of the system to the experimentally imposed stimulus program Of course the neurosciences have to focus their research on the nervous system of mammals and man in order to understand the principles of function and their regulation if malfunctions occur This is in line with efforts to investigate nervous systems throughout the animal kingdom The specific potential of the encountered systems for exploratory research into hitherto unexplained functions of the brain may very well be a key to new insights The simply organized nervous system of crustaceans performs tasks of vital importance imposed on the organism Hence this system consists of a complete set of neural circuitry open for inspection and measurement by systematic investigation The first volume The Crustacean Nervous System contains exhaustive reports on experimental work from all sectors of neuroscience using crayfish and lobsters This second volume Crustacean Experimental Systems in Neurobiology contains excellent reviews on significant topics in neurobiology Each section is introduced by short texts written by the section editors of the Crustacean Nervous System More prominent authors explain their approach to understanding the brain using a selection of experiments involving visual orientation neuromuscular systems and identification of principles of neural processing Library of Congress Catalog Library of Congress,1970 The Publishers' Trade List Annual ,1973 **BSCS Newsletter** Colorado. University. Biological Sciences Curriculum Study,1962 **Biology Labs that Work** Randy Moore,1994 This book is a compilation of articles from the The American Biology Teacher journal that present biology labs that are safe simple dependable economic and diverse Each activity can be used alone or as a starting point for helping students design follow up experiments for in depth study on a particular topic Students must make keen observations form hypotheses design experiments interpret data and communicate the results and conclusions The experiments are organized into broad topics 1 Cell and Molecular Biology 2 Microbes and Fungi 3 Plants 4 Animals and 5 Evolution and Ecology There are a total of 34 experiments and activities with teacher background information provided for each Topics include slime molds DNA isolation techniques urine tests thin layer chromatography and metal adsorption DDR The American Biology Teacher ,1992 *South Carolina Education* ,1919

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