

OAKLAND CUSD #5

**BIOLOGY**  
**MAY 11-15, 2020**

DEBRA WELCH

# Week #6: May 11-May 15, 2020

## High School Science

### Debra Welch

Hello students! I hope all of you are staying healthy. I just want everyone to know that I am thinking you and miss having school as normal. Remember to keep your immune systems strong! Basic directions are: You need to complete one lesson a week for only the class you were currently enrolled in and choose from the 3 choices. Choices 1 & 2 are for review of material we have already covered this year. I will start at the beginning and go through the year's material. Choice #3 will always be new work using your textbook or other handouts I include. I will make every effort to keep your work simple to do, considering that we are not learning together in the classroom. Your work should be turned in as a hard (paper) copy to the office or through email in a word or google document. My email is: [debra.welch@oakland5.org](mailto:debra.welch@oakland5.org). Please be sure all work has your name! If you have not turned in the assignment by the following Monday, I will need to email your parents and/or place a phone call home. Please be diligent to turn work in on time. I suggest you set up a schedule just as if you were at school and allow for the normal time period. Most assignments I send you will take less time than our normal 40 minutes. Comments will be made on paper copies and returned to you. If you send in homework answers as an email I will reply to your email and give my comments/reflections of your work. I will be supplying you with the necessary notes or you will need to use your book to find the answers. If you have any questions feel free to email me and I will get back to you by email during my office hours. If you can't email feel free to call the office and leave me a message. Good Luck and stay healthy!

Anatomy: for those of you who wanted to continue learning throughout the body systems I will be including notes and sending you powerpoints to use with Choice #3. If you plan to go into a medical field I advise you to go ahead and complete the Enrichment on the body systems we could not study due to school closure.

Lesson Choices on next page:

Class	Choice 1	Choice 2	Choice 3 (Enrichment)
Biology	<p><b>Classification of Animals (Ch17)</b></p> <p><i>Use Study guide notes attached AND your textbook.</i></p> <p>Do #14 &amp; give correct Kingdom; Do 1-10 matching of Animal Phylums &amp; Plants 1-6</p>	<p><b>Classification of Animals (Ch17)</b></p> <p><i>Use your textbook &amp; previous notes.</i></p> <p>Mix &amp; Match-Classify Match up the correct answer from the wordlist included for 1-18.</p>	<p><b>Refer to Ch24 &amp; do Section 24-1 &amp; 24-2 on Animals.</b></p> <p><i>Use your textbook to answer the questions about what characterizes an Animal.</i></p> <p><b>Do p 13-15 (all)</b></p>
Anatomy	<p><b>Questions over the Bones: p1-3 (#1-30)</b></p> <p>Do ALL pages 1-3</p> <p><i>Refer to Ch7 in your text or the notes from class OR the powerpoint notes sent to you on Bones last semester.</i></p>	<p><b>Marieb Review Questions p224 Do 1-24 (all)</b></p> <p><i>Use text and/or powerpoint sent to you last semester on the bones.</i></p>	<p><b>Chap 15 The Digestive System</b></p> <p><u>Act #1</u>-Organs of the Digestive System, do the entire packet p. 1-10.</p> <p><i>Use your textbook and/or powerpoint I am sending you on the Digestive System.</i></p> <p><i>(I am including packets like this for those who want to continue their education in the rest of the body systems we could not cover due to COV-19.)</i></p>

Study Guide for Ch 17 Test

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"Classification"

1. Be able to read a Dichotomous Key and determine identification of species examples.
2. Know all 6 Kingdoms and basic characteristics of each.
3. Know which of the Kingdoms are prokaryotic & eukaryotic
4. Know the 9 taxa used for classification: KPCOFGS
5. Know how to properly write a scientific name and give an example.
6. Review the types notes which goes through Aristotle & Linnaeus-what they did in classification
7. What is genera vs genus?
8. Know the 9 phylums:
  - a) Porifera- sponges, most primitive of the animals
  - b) Cnidaria- jellyfish, stinging cells
  - c) Platyhelminthes-flatworms
  - d) Nematoda-roundworms, *Ascaris*
  - e) Annelida- segmented worms, Earthworm
  - f) Arthropoda- exoskeleton, jointed legs; insects, arachnids; Largest phylum
  - g) Mollusca-soft-bodied, muscular foot, shell; clam
  - h) Echinodermata- spiny skinned animals, starfish
  - i) Chordata-animals with notochord which becomes a backbone.
  - j) Class: Amphibia- moist skin, life cycle in 2 parts land & water
  - k) Class: Reptilia-dry, scaly skin, claws, amniotic egg; snakes, lizards
9. Review the Plant flowchart which separates kingdom Plantae by vascular & nonvascular (primitive plants); seedless & seed bearing; Angiosperm vs Gymnosperm; dicot vs monocot.

e. Of the following, which contains members that are most similar? pl

Class : Scotobacteria  
Phylum: Schizophyta

Kingdom : Eubacteria  
Family : Bacillaceae

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f. Of the following, which contains members that are least similar?

Class : Scotobacteria  
Family : Bacillaceae

Order : Bacillales  
Genus : Bacillus

DO  
↓  
14.

14. Give the correct kingdom for each description or example below.

- \_\_\_\_\_ a. prokaryotic, common, true bacteria
- \_\_\_\_\_ b. eukaryotic and single-celled
- \_\_\_\_\_ c. multicelled producer
- \_\_\_\_\_ d. multicelled consumer, does not move freely
- \_\_\_\_\_ e. multicelled and moves freely
- \_\_\_\_\_ f. bacteria that live in extreme environments
- \_\_\_\_\_ g. mushrooms and mold
- \_\_\_\_\_ h. ameba, paramecium, euglena
- \_\_\_\_\_ i. horses, cows, worms
- \_\_\_\_\_ j. algae, trees, mosses

Animals Phylum Matching:

- \_\_\_\_\_ 1. Porifera, has pores, most primitive animal, marine
  - \_\_\_\_\_ 2. Nematoda (roundworms), *Ascaris*-common parasite of animals
  - \_\_\_\_\_ 3. Class of animals with moist skin, life cycle spent on land & water, cold-blooded
  - \_\_\_\_\_ 4. Mollusca, foot, soft-bodied, clam, oyster
  - \_\_\_\_\_ 5. Largest animal phylum, exoskeleton, jointed legs
  - \_\_\_\_\_ 6. Annelida, segmented worms
  - \_\_\_\_\_ 7. Cnidaria, animals with stinging cells, jellyfish
  - \_\_\_\_\_ 8. Echinodermata, spiny skinned animals
  - \_\_\_\_\_ 9. Chordata, develops a notochord & backbone
  - \_\_\_\_\_ 10. Class of animals with dry, scaly skin & claws, amniotic egg, cold-blooded
- Chordata, develops a notochord & backbone

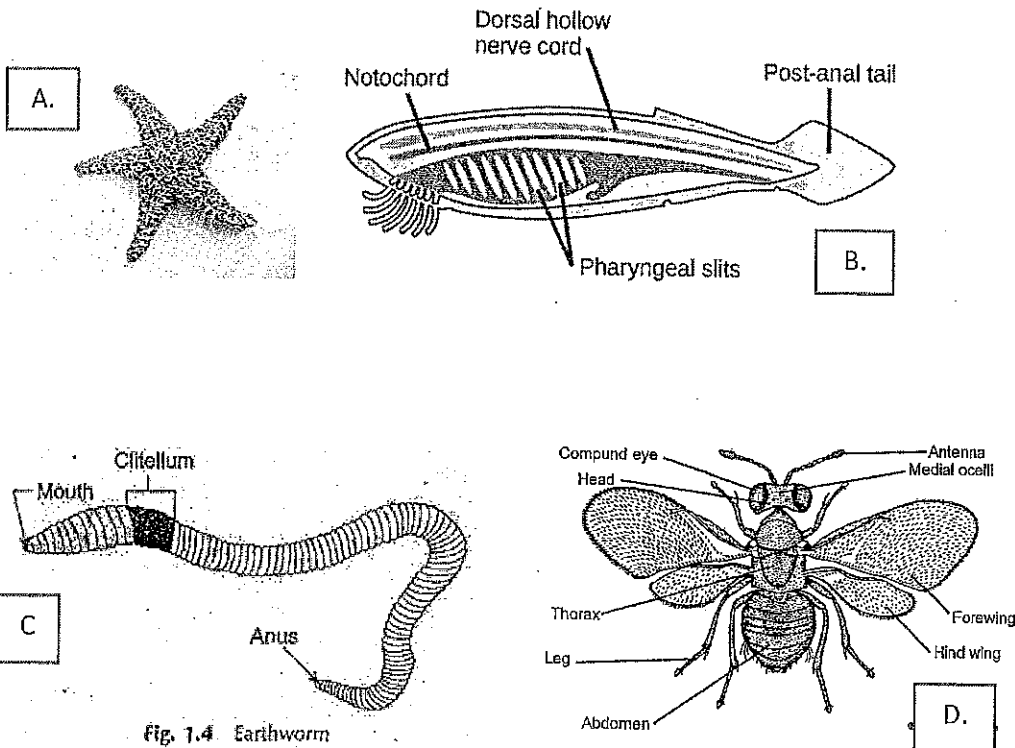
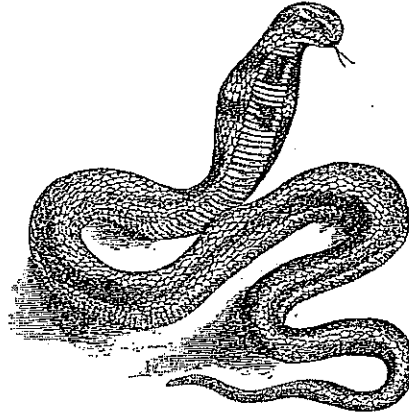
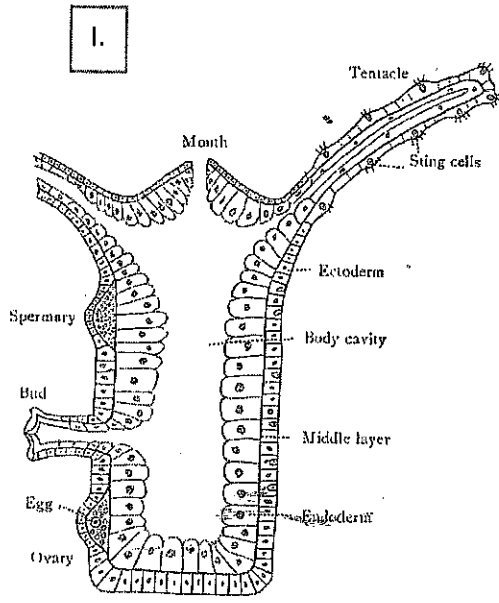


Fig. 1.4 Earthworm



### Plants Matching:

- \_\_\_\_\_ 1. Angiosperm
- \_\_\_\_\_ 2. Dicot
- \_\_\_\_\_ 3. Mosses
- \_\_\_\_\_ 4. Fern
- \_\_\_\_\_ 5. Monocot
- \_\_\_\_\_ 6. Gymnosperm

### Wordlist:

- a. 1 cotyledon emerges, corn
- b. Most primitive
- c. Cone-bearing, naked seed, vascular
- d. Seed plants, flowers
- e. 2 cotyledons emerge, beans
- f. Seedless, has spores, vascular

## Mix and Match - Classify

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: Wk 6

Fill in the blank with the letter next to the word that best completes the sentence.

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1. Multicellular autotrophs belong to the kingdom \_\_\_\_\_
  2. The scientific name uses \_\_\_\_\_ words.
  3. The kingdom monera consists of \_\_\_\_\_
  4. Multicellular heterotrophs belong to the kingdom \_\_\_\_\_
  5. The prokaryotes are unicellular \_\_\_\_\_
  6. \_\_\_\_\_ the the second highest level of classification.
  7. Organisms of the same \_\_\_\_\_ will yield fertile offspring.
  8. Archae creates a six kingdom system of \_\_\_\_\_
  9. The \_\_\_\_\_ is made up of the genus and species names.
  10. \_\_\_\_\_ is the science of classifying things.
  11. Yeasts, molds, mildew, and mushrooms belong to the kingdom \_\_\_\_\_
  12. In the name *Canis lupus*, \_\_\_\_\_ is the genus name.
  13. \_\_\_\_\_ is the two part naming system to identify species.
  14. \_\_\_\_\_ are the "true bacteria."
  15. Protozoa and algae are part of the kingdom \_\_\_\_\_
  16. \_\_\_\_\_ is the father of taxonomy.
  17. \_\_\_\_\_ are similar to bacteria, but can withstand extreme environmental conditions.
  18. \_\_\_\_\_ is the largest classification level.
- a. scientific name
  - b. phylum
  - c. animalia
  - d. species
  - e. kingdom
  - f. taxonomy
  - g. fungi
  - h. plantae
  - i. classification
  - j. eubacteria
  - k. archae
  - l. bacteria
  - m. prokaryotes
  - n. protista
  - o. Latin
  - p. binomial nomenclature
  - q. *Canis*
  - r. Carolus Linnaeus



CHAPTER 24

BIO (Welch)  
WK 6, Chapt 3  
P 1

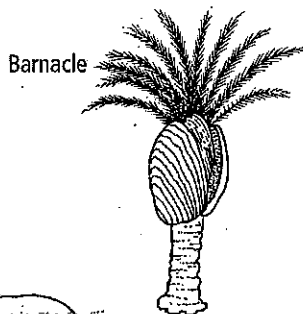
# Study Guide

## Section 1: Animal Characteristics

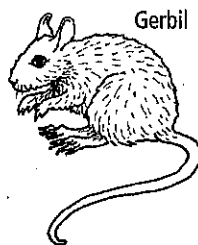
In your textbook, read about animal characteristics.

Refer to the illustration. Respond to each statement.

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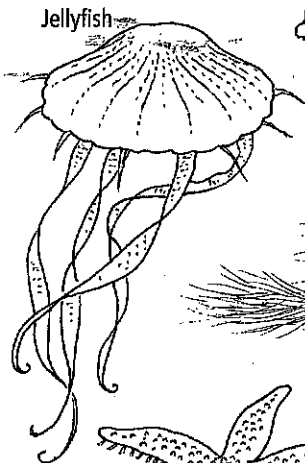
Barnacle



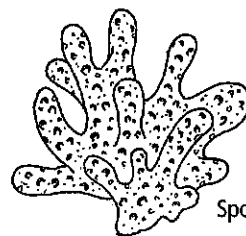
Gerbil



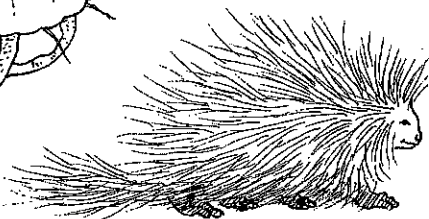
Frog



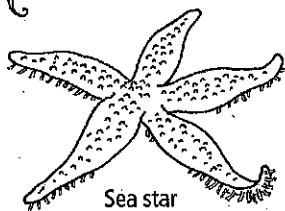
Jellyfish



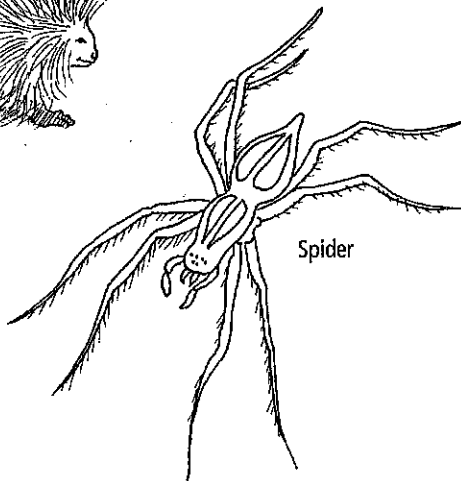
Sponge



Porcupine



Sea star



Spider

1. Identify the characteristics of all animals.

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2. List the three organisms that are vertebrates.

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**Study Guide, Section 1: Animal Characteristics** continued

BIO (Welch)  
WK 6, choice 3, p2

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In your textbook, read about reproduction in animals.

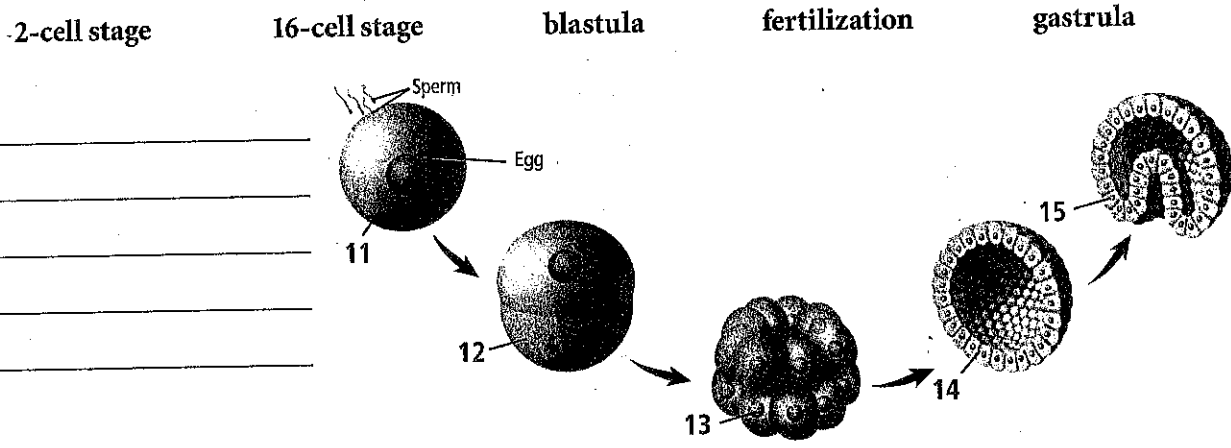
Use each of the terms below only once to complete the passage.

- |                |           |          |               |
|----------------|-----------|----------|---------------|
| asexually      | budding   | external | fragmentation |
| hermaphrodites | identical | internal | single        |

Many animals reproduce sexually, but some reproduce (3) \_\_\_\_\_. In the process of sexual reproduction, the male usually produces sperm and the female produces eggs. Some species produce both sperm and eggs. They are called (4) \_\_\_\_\_, and fertilization can be (5) \_\_\_\_\_ or (6) \_\_\_\_\_. Asexual reproduction occurs when a(n) (7) \_\_\_\_\_ parent produces offspring that are (8) \_\_\_\_\_ to the parent. Two types of asexual reproduction are (9) \_\_\_\_\_ and (10) \_\_\_\_\_.

In your textbook, read about early development.

Label the diagram. Use these choices:



- 11. \_\_\_\_\_
- 12. \_\_\_\_\_
- 13. \_\_\_\_\_
- 14. \_\_\_\_\_
- 15. \_\_\_\_\_

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In your textbook, read about tissue development.

Complete the table by checking the correct column(s) for each description.

Description	Endoderm	Mesoderm	Ectoderm
16. Gives rise to digestive tract			
17. Becomes nervous tissue and skin			
18. Gives rise to muscles			
19. Inner layer of cells in the gastrula			
20. Continues to grow and divide			

**Study Guide.****CHAPTER 24****Section 2: Animal Body Plans**Bio (Welch)  
WK 6, Choice 3  
P 3

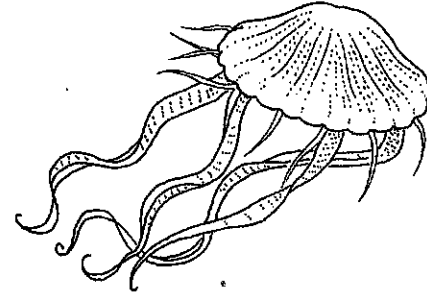
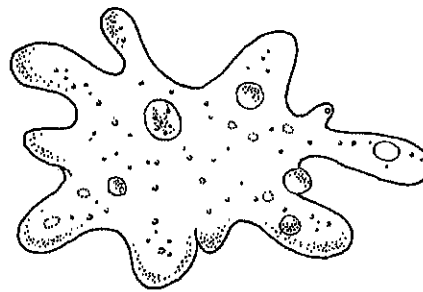
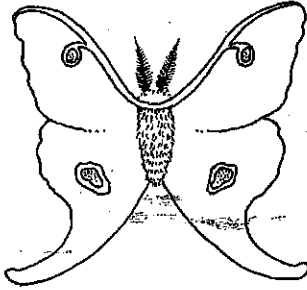
In your textbook, read about symmetry.

Label the organism with the type of symmetry it shows. Use these choices:

asymmetrical

bilateral

radial



1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

In your textbook, read about body cavities.

Identify the following as being either coelomates, pseudocoelomates, or acoelomates.

4. fish \_\_\_\_\_

7. planaria \_\_\_\_\_

5. roundworms \_\_\_\_\_

8. humans \_\_\_\_\_

6. snails \_\_\_\_\_

9. earthworms \_\_\_\_\_

In your textbook, read about development in coelomate animals.

Complete the table by checking the correct column(s) for each description.

Description	Protostomes	Deuterostomes
10. Will not develop normally if a cell is removed		
11. Top four cells aligned directly on the bottom four cells		
12. Are coelomates		
13. Include snails, earthworms, and spiders		
14. Develop mouth from the opening in the gastrula		