

# Biology I - diy NOTES

## Chpt 30.2

### Amphibians

Name \_\_\_\_\_

Date \_\_\_\_\_ Hour \_\_\_\_\_

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*Read Chapter 30.2 in your text, pages 803-809. Fill in the blanks (or answer the questions) below using the information you have read.*

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1. Amphibians are in the class \_\_\_\_\_, which means \_\_\_\_\_.

This class has includes 3 orders. Name them and give an example of each.  
Give the page number where a picture of it can be found in your text.

1.

2.

3.

2. Amphibians have \_\_\_\_\_ skin, and most have \_\_\_\_\_.

3. Although most adult amphibians are capable of \_\_\_\_\_ (land) existence, nearly all of them rely on \_\_\_\_\_ for \_\_\_\_\_.

4. Amphibian \_\_\_\_\_ lack protective membranes and \_\_\_\_\_, and must be \_\_\_\_\_ or other moist areas.

5. What is an ectotherm?

6. How do ectotherms survive in areas that are too hot or too cold for part of the year?

7. Describe the changes that occur as a frog goes through metamorphosis.  
What characteristics change?

8. Describe how young salamanders differ from adult salamanders.  
(How do they breathe?)

9. Why was it necessary for a 3 chambered heart to evolve in amphibians?

10. What does each of the chambers do in a 3 chambered heart?

11. In amphibians the \_\_\_\_\_ is much more important than the \_\_\_\_\_ as an organ for gas exchange. But because the skin of an amphibian must stay \_\_\_\_\_ to exchange \_\_\_\_\_, most amphibians must live near \_\_\_\_\_ or in moist areas.

12. Compare and contrast frogs and toads.

13. How are frogs and toads an indicator of pollution?

14. Salamanders resemble \_\_\_\_\_, but have \_\_\_\_\_

and lack \_\_\_\_\_ .

15. What are the characteristics of Caecilians?

16. The success of inhabiting the land depended on:

17. Describe the advantages of life on land for early amphibians.

18. Describe the disadvantages of life on land for early amphibians.

19. Early vertebrates evolved from \_\_\_\_\_ to \_\_\_\_\_ . Limbs first evolved in \_\_\_\_\_ animals. Some of these animals had \_\_\_\_\_ and evolved into animals that \_\_\_\_\_ on the bottom of marshlands, and finally evolved into fully developed \_\_\_\_\_ that could \_\_\_\_\_ .