NetFrog	Dissect	ion
INCLITUE	Dissect	1011

SET-UP

Name	

Directions: Go to the **NetFrog** website at http://frog.edschool.virginia.edu/Frog2/. Click the "*Begin Dissection*" button to start. A link is also listed in the *Amphibians & Reptiles* section of the *Plants & Animals* page of the *Kid Zone* at http://sciencespot.net/.

1. What materials will you need for a dissection kit?
Guess What? → Where does the word "amphibian" come from? What does it mean?
2. Where should you place the pins to hold the frog in the pan?
$Try It! \rightarrow Read$ the information about pinning and then click the button to see if you can identify the four locations.
<u>INCISIONS</u>
1. Where should you make the first incision?
2. Where should you make the sideways incisions?
When you are making incisions, what do you have to be careful not to cut?
Guess What? → Why does a frog's skin feel slimy? How does this help the frog?
3. What tool will you use to separate the skin from the muscle layer? What should you do with the flaps of skin after you have separated them from the muscle?

Click the *Try It!* button and see if you can find the right locations for making the three incisions.

4. What tool wills you use to make the incisions in the muscle layer? _____
What do you need to avoid when you make the incisions through the abdominal muscle? _____
Guess What? → What are the three types of muscle tissue? _____

Guess What? → How does countershading help a frog? _____

5. What tool will you use to cut through the chest bones?

Guess What? → How far can a frog jump? _____

7. What tool will you use to separate the muscle from the organs below? ________

Guess What? → What are a frog's ears called? _______

8. After you read the information on the triangular flaps, click the *Try It!* button and complete the activity.

Guess What? → How does a frog use its eyes when it eats? _____

ORGANS1. Guess What? → What organ helps prevent a frog from freezing during hibernation?
2. What organs will you see first?
3. Where is the heart located in relation to the liver?
Guess What? → How many chambers does a frog's heart have?
4. What organs are located in layer 2?
Guess What? → How do frogs use their teeth?
5. Where is the gallbladder located?
Guess What? → How is the gallbladder used?
6. Guess What? → What is chyme?
7. Guess What? → What are the three parts in the small intestine?
8. Guess What? → gas exchange is a process that animals with thin skin use to allow gases to pass right through their skin.
9. Where are the lungs located?
10. Guess What? → What type of proteins does the pancreas produce?
11. What organs do you need to remove to see layer four?
12. Guess What? → What does the spleen do?
13. Guess What? → How many liters of blood does it take to produce one liter of urine in a human?
14. Read the information about frog testes and then click the <i>Try It!</i> button. See if you can find these organs.
Guess What? → What is the name of the opening through which sperm and eggs pass?
15. Read the information about frog ovaries and then click the <i>Try It!</i> button. See if you can find these organs.
Guess What? → What organ holds the eggs in a female frog?
16. Guess What? → What is a tadpole's first meal?
17. Guess What? → What percentage of amphibians are frogs or toads? %
18. What color is the spleen? Hint: Look at the picture!
Guess What? → Why are frogs important to the environment?
19. Click the <i>Try It!</i> button to see if you can find the ovaries and oviducts.
CLEAN UP & REVIEW
1. What do you need to do to clean up after you do a dissection? of the frog properly, rinse and
dry all, including the, and put the dissecting
pan and away.
2. Click the link for the <i>Quiz</i> in the top right corner of the window to try the quiz questions. Work your way through the questions until you have completed the quiz

Done? Visit the links in the Animal Games section of the Plants & Animals page of the Kid Zone at http://sciencespot.net/