Name: _____ Date: _____ Period: _____

Biology Chapter 3 – Food Chains and Webs

Part 1: Food Chains

Directions:

1) Go to the following website to complete **SEVEN** food chains or use the link that is on my website. http://www.sheppardsoftware.com/content/animals/kidscorner/games/foodchaingame.htm

2) Complete each food chain. If you come across an unfamiliar animal, feel free to learn about it through a Google search. There are 7 total food chains.

3) Choose **three of the six** completed food chains (not the 1st) and copy the order of organisms below.

4) When you reach the page indicating you have completed the activity with the number of your mistakes show it to your teacher for a stamp and verification of your mistakes. You must have the choices filled in below and no more than 1 mistake to receive your stamp.

Food Chains	**Names and order of organisms. Use arrows to indicate the flow of energy.**
Example (1st chain)	Flower → Caterpillar → Bird
Choice #1	
Choice #2	
Choice #3	

Teacher Verification: _____

Part 2: Organism Feeding Relationships and Trophic Levels in a Food Web

Directions: YOUR GOAL IS TO COMPLETE THE WEB IN THIS ACTIVITY WITHOUT ANY ERRORS.

1) Access the following website: http://coolclassroom.org/cool_windows/home.html

2) Click on **"Skip Login"** to begin the activity.

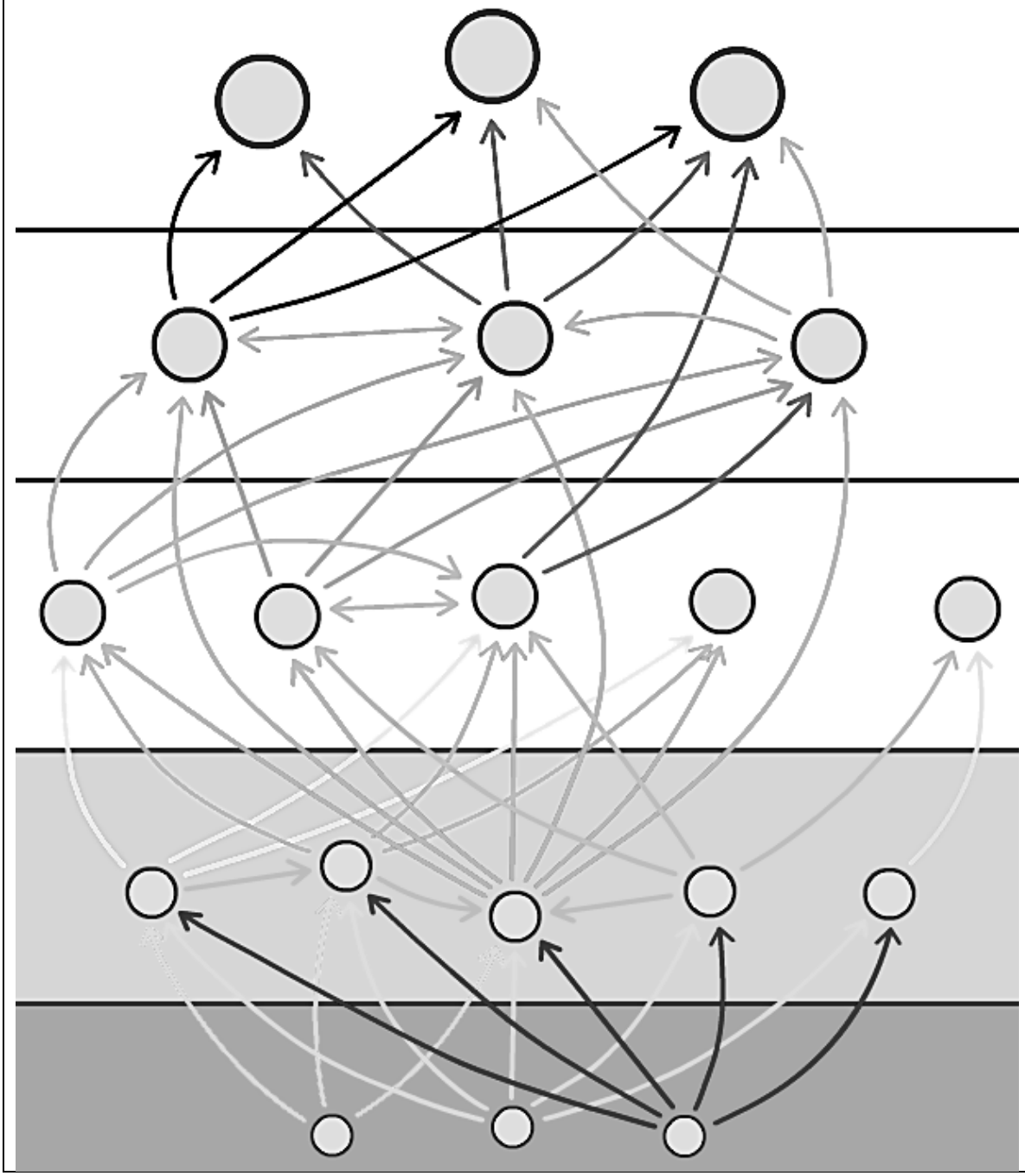
3) Click on each organism to learn about them and complete the information table below. Place your animals in the trophic level and location that you think is appropriate.

3) Once you have placed your organisms into a predicted proper location, click on the √ to end the game and check your answers. It will show you which placements are correct and incorrect.

4) Record the **correct** placements into the food web below. Repeat the simulation using your data table and partially completed web to more accurately place organisms until the web is perfectly correct. You might have to restart the game several times.

Name of Organism	What does it eat (prey upon)?	What will eat it (predator/s)?	Trophic Level? Write after placement.
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			
11)			
12)			
13)			
14)			
15)			
16)			
17)			
18)			
19)			

Copy each organism's name here as you place them correctly.	Trophic Level



Part 3: The Food Web

Directions:

1) Go to the following Website to complete a food web or use the link that is on my website.
http://teacher.scholastic.com/activities/explorer/ecosystems/be_an_explorer/map/line_experiment14.swf
2) Follow the directions that are on the website. When you complete the food web, copy your result in the following table with the organisms placed in the appropriate trophic levels. Remember that some organisms fall within more than one tropic level depending on their diet, so you might have to place them between two trophic levels. Remember to organize the organisms in a way that makes the arrows as clear as possible but also places them in the appropriate trophic level. Answer the questions that follow. Do not answer the question on the website. It is on this page. Don't print the certificate either unless you want to do so at home or in the library.

Top Level Consumer/s 3rd Level Consumer/s 2nd Level Consumer/s Primary Consumer/s Producers

Fill in the blanks.

1. Because top level consumers are meat eaters they are called _____.

2. The trophic level containing the highest amount of energy is the _____ and the trophic level containing the lowest amount of energy is the _____.

3. This food web is missing the category called _____. They are vital to the stability of an ecosystem because (3 sentence minimum expectation):

4. The amount of energy passed from one trophic level to the next is _____. The rest is lost in the form of _____ and _____.

5. Imagine that a farmer on the edge of the forest wants to clear more land for planting and cattle grazing so he starts a brushfire. The fire spreads burning up a lot of the surrounding vegetation. Predict what would happen to the other organisms in this ecosystem. Answer website question here using the ABC format.