

Study Guide: Energy Flow Thru	Name: _____ Date: _____
Ecosystems	
	Directions: Use your science notebook to find all answers. <u>Provide the page # AND use W.H.Y.</u> (What is the answer, and explain How & Why for each answer.)
Questions & page #	Write Answers on this side
1. What is ecology?	
2. What is a population of organisms?	
3. What is a community of organisms?	
4. Explain what a food chain is...	
5. Explain the difference between a food chain & a food web.	
6. Explain what a producer is & how it functions in an ecosystem.	
7. Explain why a food web is a better way to show the path of energy in an ecosystem.	
8. What are abiotic factors in an ecosystem...explain & list all	
9. What do we call organisms that feed on the dead bodies of other organisms? Give 3 examples.	
10. A food chain always begins with...	
11. What are the products of photosynthesis?	
12. Give an example of 3 different types of producers.	

13. What is a consumer? AND provide an example of 3 different ones.	
14. What is an omnivore?	
15. What is the source of energy in photosynthesis?	
16. What do are organisms that only eat producers known as?	
17. Create a diagram that shows the trophic path that energy flows in an ecosystem. *use separate sheet if needed	
18. Provide an example of 3 different 3rd level consumers.	
19. Explain why only 10% of energy is available to the next organism in a food chain.	
20. What are biotic factors in an ecosystem? AND Give 4 trophic level examples.	
21. Explain why there are only a few 3rd level consumers at the top of an energy pyramid.	
22. Create a food chain that shows all 4 trophic levels & label each.	
23. Explain the role of a decomposer in an ecosystem.	
24. Draw and label a diagram that demonstrates the photosynthesis process.	

25. What are the raw materials & products of photosynthesis?	
26. Explain the process of transpiration AND draw a picture.	
27. Explain the process of respiration AND draw a picture.	
28. Explain the role of the chloroplast & chlorophyll in photosynthesis.	
29. What are the coldest biomes and where are they located?	
30. Which biome has the most diversity of plant & animal species	
31. Describe the following biomes on the right side - provide details about plants, animals & climate	Grassland/Savannah
	Desert
	Deciduous Forest
	Marine & Freshwater
32. What is a coniferous forest?	