## **APES Pesticides Assignment**

Name \_\_\_\_\_

Fill in the table:

Fill in the table: <b>Definition</b>		Examples – Details – etc.			
1. What are Pesticides?	<u>Insecticide</u>	<u>herbicide</u>	<u>fungicide</u>	<u>nematocide</u>	<u>rodenticide</u>
2 Deposits of posticidos					
2. Benefits of pesticides					
3. Negative Effects of Pesticides					
4. Human Health Effects of Pesticides					
5. First generation pesticides	6	. Second Gei	neration Pestic	ides	
7. Broad-spectrum pesticide					
8. Narrow-spectrum pesticides					
9. Chlorinated Hydrocarbons					
10. Bioaccumulation			11. Bioma	agnification	
12. Organophosphates					
12 Carbonatas					
13. Carbamates					
14. Biopesticides					
15. Selective Herbicides	1	6. Broad Spect	trum Herbicide	25	
17. Contact Herbicides	1	18. Systemic H	erbicides		

19. Pesticide Treadmill	
20. Explain Genetic Resistance To Pesticides.	
21. Benefits of polyculture vs monoculture in re	educing pesticide use
22. Biological Control	
23. Genetic Engineering	How does Genetic Engineering create alternatives to Pesticides?
24. Irradiation	
25. FIFRA	
26. Food Quality Protection Act	
27. What is Integrated Pest Management?	

**FRQ:** The active ingredients in many pesticides are chemical compounds that kill organisms such as insects, molds, and weeds. Proponents claim that the use of pesticides improves crop yields and thus protects land and soil by reducing the conversion of forests and wetlands to cropland. Opponents of pesticide use claim that pesticides degrade water and soil quality and that other modern agricultural techniques and practices are responsible for the improved crop yields in recent years.

(a) Design a laboratory experiment to determine whether or not a new pesticide (product X) is toxic to minnows, a type of small fish. For the experiment you design, be sure to do all of the following.

(i) State the hypothesis.

- (ii) Describe the method you would use to test your hypothesis.
- (iii) Identify the control.
- (iv) Identify the dependent variable.
- (b) Describe experimental results that would lead you to reject your hypothesis in part (a)(i). (Be specific.)
- (c) One strategy for dealing with agricultural pests is integrated pest management (IPM).
  - (i) Describe IPM. As part of your description, include TWO specific pest-control approaches that are part of IPM.
  - (ii) Identify one environmental benefit of using IPM.
- (d) Describe TWO agricultural practices, other than those involving pest control, that increase crop yields.