Name	Period	Date	
Model Organisms		Biotechnology II & III	

Effects of Alcohol on *C. elegans*

Pre- Lab Questions

Complete the following using the background	d information provided in your lab v	write-up.
Alcohol is classified as a	which works on your	
2. At low doses, it can have stimulating effection, and		_ ,
3. As the dose increases, alcohol		
4. At higher levels,,	, and	can occur.
5. How alcohol affects you depends on seve	en things. Name three. -	
6. Explain what BAC is.		
7. What is the BAC Level that usually induce	es a coma?	
8. What is the legal limit of the BAC measure	for Rhode Island?	
Explain how alcohol is absorbed and distr	ibuted in the body - be Specific.	

11. Name the two enzymes involved in the process you described above and
12. List three characteristics of <i>C. elegans</i> ,,, and
13. Explain the development of <i>C. elegans</i> .
14. Explain the life cycle of <i>C. elegans</i> .
15. <i>C. elegans</i> is a model organism for the study of:, and,
16. Describe the cellular characteristics of <i>C.elegans</i> .
17. What do toxicology studies investigate?
17. Explain why <i>C. elegans</i> is a good model for the study of toxicology.

10. Explain how your body metabolizes alcohol in the body. Be specific.

18. What is DNA Polymorphisms?
19. Explain the link between genetics and how alcohol is metabolized.
21. What is the ADH3 gene responsible for?
20. Name and describe one polymorphism in the ADH3 gene.
21. Does everyone react to alcohol in the same way? Explain why or why not.