## **Study Guide Introduction to Biology**

Part I – What is Science	
1.	Define Science
2.	Compare Discovery Science with Hypothesis-Driven Science
3.	Compare scientific facts, hypothesis, theories and laws
4.	Be able to explain why other philosophies for explaining the Universe are not science
~	
5.	Differentiate between true science and what many people think of as science
6.	Define Biology
7.	List the five unifying themes of biology

## Part II – Characteristics of Living Things

8. What are the 8 characteristics of living things
9. Why is a virus not considered a living thing
Part IV – Organization of Living Things
10. List the levels of organization in living things and an appropriate example of each for a human
Part V – Unifying Themes of Science
11. Compare direct and indirect observations
12. Compare open and closed systems
13. What is the correct way to classify things and why do scientists classify
14. What is a model?
15. What is scale?
16. Patterns are used to make