Chapter 1 Study Guide

1. What is biology
2. List & Describe the Characteristics of Living Things
3. Where does energy for metabolism come from:
   1. In plants 🡪
   2. In animals 🡪
4. What is Biodiversity
   1. Where is it greatest:
   2. Where is it lowest:
   3. What does it mean to decrease biodiversity?
5. What does a scientist test with an experiment?
6. What is a Theory? Can it change?
7. Be able to design an experiment to test a hypothesis identifying the following
   1. Independent variable
   2. Dependent variable
   3. Control
   4. List what conditions you would keep constant
8. Explain how Evolution through natural selection leads to adaptations

**Define the following**

1. Experiment:
2. Gene:
3. Homeostasis:
4. Hypothesis :
5. Metabolism:
6. Reproduction:
7. Species:
8. Adaptation:
9. Transgenic:
10. Independent variable:
11. Dependent variable:
12. Control Group:
13. Constants (controlled variables):
14. Biotechnology:
15. Ecosystem:
16. Evolution:
17. Natural Selection