Ch 1: Essential Questions & FCs Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ P \_\_

1. Examine the importance of hydrogen bonding.

2. Summarize why many compounds dissolve in water.

3. Compare acids and bases.

4. Describe the bonding properties of carbon atoms.

5. Compare carbohydrates, lipids, proteins, and nucleic acids.

6. Illustrate how bonds break and reform during chemical reactions.

7. Explain why chemical reactions release or absorb energy.

8. Explain the effect of a catalyst on activation energy.

9. Predict how enzymes regulate chemical reactions.

Conclusion,

Control,

Data,

Independent Variable,

Dependent Variable,

Experimental Design,

Graphical Representation,

Hypothesis,

Theory,

Inference,

Observation,

Procedures,

Quantitative,

Qualitative,

Hypothesis

Microscope,

compound microscope,

dissecting microscope,

scanning e- microscope,

transmitting e- microscope