

## Chapter 1-2: Written Question Practice

**Read the question carefully and answer in detail!**

1. How would you determine if the results of an experiment are reliable and should be trusted?

Example Hypothesis: Advil is faster at relieving the symptoms of a headache rather than Tylenol.

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2. In the following experiment, determine the independent and dependent variables, AND make a list of all necessary controls.

*Mixing apple slices with lemon juice prevents them from turning brown.*

*Apple slices are mixed with lemon juice, water, sugar water, salt water, milk and coffee and are compared to apple slices not mixed with anything. It is determined that the following order of substances prevented the apple slices from turning brown ranked from longest time to shortest time in which they turned brown.*

*Lemon juice → milk → sugar water → salt water → coffee → no substance*

*Hypothesis is supported.*

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3. Describe a negative feedback loop (homeostasis) using a specific example that has occurred to you.

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4. Describe the types of bonds in the chart below. Write comparisons beside each other where possible.

Ionic Bonding	Covalent Bonding	Hydrogen Bonding

5. Describe the functions/properties of water.

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6. A meal contains starch, proteins and triglycerides (for example a ham and cheese sandwich). List the monomers and describe two functions of each of these biomolecules in the human body.

<b>Biomolecule</b>	<b>Monomer</b>	<b>Function</b>	<b>Function</b>
<b>Starch</b>			
<b>Proteins</b>			
<b>Triglycerides</b>			

7. Complete the table to compare DNA, RNA and ATP.

DNA	RNA	ATP