**DNA Webquest**

**Instructions**: Complete the following questions using the websites found on the Genetics page of my website.

**Tour the Basics:**

1. **What is DNA?**
2. **Where is DNA found in humans?**
3. **Describe what DNA looks like, and draw/paste a picture. What is a double helix?**
4. **What do the letters A, T, C, and G stand for? Which can pair?**
5. **How does DNA work?**

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1. **What is a gene? Why is it important?**
2. **What is a mutation? How are they caused? Give an example.**

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1. **What is a chromosome?**
2. **How are DNA and chromosomes related? How much DNA do we have in our bodies?**
3. **How can you tell the difference between males and females in chromosomes?**
4. **Do all living things have the same number of chromosomes? How many chromosomes does the average human have?**

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1. **What are proteins?**
2. **How do proteins help you preform bodily functions?**
3. **How are proteins made? (give the steps)**

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1. **What is heredity?**
2. **What is a trait? Give some examples.**
3. **How does the environment work with our DNA?**

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**DNA Workshop-**

1. **Find out how DNA is Replicated. Write the steps to explain the process.**
2. **Find out how DNA is used to make proteins. What are the steps for protein synthesis?**
3. **Put the following in order from smallest to largest: (chromosome, cell, DNA, gene, nucleus, ribosome).**