Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_

1. What do the initials DNA stand for?
2. Finish the following DNA sequences?

|  |  |  |  |
| --- | --- | --- | --- |
| 31. A- T- T- G-A-C- | 32. T-C-T-A-T-G- | 33.A-A-T-C-G-T- | 34. C-T-G-A-C-T- |
|  |  |  |  |
| 35. C-T-G-T-T-T- | 36. A-A-T-G-G-A- | 37. C-T-G-T-A-C- | 38.A-T-G-C-C-T- |

1. Explain how DNA replicates?
2. Why is gene mapping important in genetics?
3. What is gene splicing?
4. Essay - Explain how gene splicing is accomplished and what are the advantages and disadvantages??