

Name \_\_\_\_\_ Hour \_\_\_\_\_ **DUE DATE:** \_\_\_\_\_

## DNA MODEL PROJECT Scoring Guide

Your assignment is to construct a three dimensional model of a DNA molecule.

- a. Your DNA model must be composed of at least 20 nucleotides (10 steps of the ladder).
- b. Your model must include the nucleotides; Adenine, Thymine, Cytosine, and Guanine.
- c. Your model must include hydrogen bonds between the nucleotides.
- d. Your model must include a sugar-phosphate backbone.
- e. Your model must be able to twist into the double helix structure.
- f. Your model must have a key identifying all the parts of the molecule.
- g. Make sure your name is on your model and this scoring guide.
- h. Finally, you will need to present your model to the class and identify the components of the DNA molecule and turn-in this scoring guide.

### ***SCORING GUIDE (50 points total)***

Project turned in on time.....\_\_\_\_\_ / 5 points

Contains 20 nucleotides (10 steps of the ladder).....\_\_\_\_\_ / 10 points

All four nucleotides.....\_\_\_\_\_ / 5 points

Hydrogen bonds.....\_\_\_\_\_ / 5 points

Sugar-phosphate backbone.....\_\_\_\_\_ / 10 points

Double helix structure.....\_\_\_\_\_ / 5 points

Key to materials used in the model.....\_\_\_\_\_ / 5 points

Presentation with this scoring guide.....\_\_\_\_\_ / 5 points

**TOTAL: \_\_\_\_\_ / 50 points**