

## Your task:

Create a 3-D double helix DNA molecule with 6 connecting nucleotides.

Your 3D Double Helix model must consist of the following:

- Ribose Sugar that has 5' and 3' carbon labeled along with oxygens and hydrogens attached
- Phosphate groups attached
- 6 Nitrogenous bases – 4 Purines and 2 Pyrimidines
  - Each nitrogenous base must be labeled (A, C, G, T)
  - They can be in any order
  - The ring structure (double and single) must be shown
- Must be in a double helix
  - The hydrogen bonds between the nitrogenous bases must be shown
  - They can be shown by dashed marks or something to resemble a bond
- Phosphodiester bonds between the phosphate groups and ribose (the 5' and 3' carbon of ribose) must be shown
- Your double helix must be free standing.

## How to get started:

You can draw the structures, label, and form your helix by connecting the two strands together. Make sure your structures are well labeled.

/20 marks

Structure of DNA:

