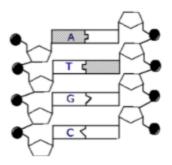
Gene Concept

- 1. Using **50 words or less**, write briefly on the following. Use examples where possible.
 - a. Gene Structure
 - b. Chargaff's Rules
 - c. Types of RNA
 - d. Role of DNA
- 2. A diagram of a section of DNA is given below:

On the diagram (right), circle and name the following:

- a. a nucleotide
- b. a sugar and a phosphate
- c. the bases that are not labelled
- d. the 5'end and the 3'end.



3. Complete the following cross word puzzle:

| | | | | 1 | | | | 2 | | | | |
|---|---|---|--|----|--|----|--|----|---|--|---|--|
| | | | | 3 | | | | | | | 4 | |
| | | | | | | | | | | | | |
| | | 5 | | | | | | | | | | |
| | | | | | | | | | | | | |
| 6 | 7 | | | | | | | | 8 | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | 9 | | 10 | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | 11 | | | | |
| | | | | | | | | | | | | |
| | | | | 12 | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Across

- 3. The bonds that occur between complementary nucleotide pairs
- 5. A pyrimidine that is paired with guanine in DNA
- 6. The subunit of DNA composed of a nitrogenous base, a sugar and a phosphate
- 9. A change occurring in DNA
- 11. A long macromolecule that carries genetic Information
- 12. A pyrimidine that is paired with adenine in DNA

Down

- 1. A threadlike structure made of DNA wrapped around protein
- 2. A portion of a DNA molecule that determines the traits of living things
- 4. The sugar in DNA that is bonded to a nitrogenous base and a phosphate
- 7. A pyrimidine that is paired with adenine in RNA
- 8. A purine that is paired with cytosine in DNA
- 9. A purine that is paired with thymine in DNA

Source: https://www.teacherspayteachers.com/Product/DNA-Structure-and-Function-Worksheet-Crossword-Puzzle-3291597