|  |  |
| --- | --- |
| **Need to know** | **Yes/No** |
| Explain DNA replication and the direction (5” to 3”) |  |
| Difference between template and coding strand |  |
| Labelling of DNA structure and their bases (A-T, C-G) and how to code DNA using a chart |  |
| Differences between DNA and mtDNA |  |
| Difference between RNA and DNA |  |
| What is a start codon  What are anti-codons |  |
| What is differentiation |  |
| Why does DNA replicate itself and how does DNA polymerase create a new strand |  |
| What is non-disjunction |  |
| Define cancer and the factors associated |  |
| An in-depth understanding of transcription and translation |  |
| The stages of mitosis and meiosis  What is the result of these two processes |  |
| Difference between a malignant and a benign tumour |  |
| Common carcinogens and lifestyle changes and how to detect certain cancers (ie mammogram to detect breast cancer) |  |
| Explain what happens in Interphase |  |
| Property of cancer cells |  |
| Explain between Acetylation and Methylation |  |