Study Guide: *What you need to know*

Vocabulary:

|  |  |
| --- | --- |
| DNA |  |
| Chromosome |  |
| Prokaryote |  |
| Eukaryote |  |
| Unicellular |  |
| Multicellular |  |
| Mitosis |  |
| Cell cycle |  |
| Interphase |  |
| Prophase |  |
| Metaphase |  |
| Anaphase |  |
| Telophase |  |
| Cytokinesis |  |
| Budding |  |
| Binary fission |  |
| Regeneration |  |
| Asexual reproduction |  |
| Gene  |  |
| Genome |  |
| Replication |  |
| Meiosis |  |
| Gametes |  |
| Sperm |  |
| Egg |  |
| Haploid |  |
| Diploid |  |

Concepts:

* Compare and contrast Asexual and Sexual reproduction
* Identify methods of asexual reproduction
* Give advantages and disadvantages of asexual reproduction
* Give advantages and disadvantages of sexual reproduction
* Identify structure of DNA (Sugar Phosphate Backbone, Base Pairs)
* Explain DNA replication and its function during cell division
* Identify all parts of the cell cycle
* Explain the difference between haploid and diploid
* Compare and contrast mitosis and meiosis