

BIO CH 9 STUDY GUIDE

- **Why don't cells grow as large as they want? What problem do they face as their size increases?**
 - Larger cells place more demand on its DNA
 - Larger cells are less efficient in moving nutrients and waste
- **Understand how surface-area to volume ratio helps us to understand cell size**
 - Cells with a high surface area to volume ratio is able to sustain itself more easily
 - smaller cells transport substances easier
- **Contrast asexual and sexual reproduction**
 - Asexual-
 - one parent
 - uses fission
 - very little change of genetic variation
 - Sexual-
 - Two parents
 - uses meiosis
 - genetic variation in offspring
 - Both-
 - Forms of reproduction
 - involves plants, fungi and animals
 - produces offspring
- **Understand anatomy of a chromosome**
 - Dna - genetic code / double helix
 - histone protein - proteins presents in the chromatins
 - chromatin - long, coiled, thread-like structure / relaxed form of DNA in the nucleus of the cell
 - coils -
 - nucleosome -
 - sister chromatids - structure that contains identical DNA copies that is formed during DNA replication
 - centromere - cell structure that joins two sister chromatids / holds chromosomes together
 - chromosomes - structure that contains DNA and carries genetic material from one generation to another / made up of chromatin
 - complexity is not related to chromosome number
 - 4 chromosomes = 8 chromatids
 - Bacteria is a prokaryote and has no nucleus
- **Why is the cell cycle important?**

Bio Ch 9 Guide

Xiaolong Qi



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