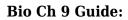
# **BIO CH 9 STUDY GUIDE**

- 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 myoing 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 sustances easier
- Contrast asexual and sexual reproduction
  - Aexual-
    - one parent
    - uses fission.
    - very little change of genetic variation
  - Sexual-
    - Two parents
    - uses meiosis
    - genetic variation in offspring
  - o Both-
    - · Forms of reproduction
    - involves plants, fungi and animals
    - produces offspring
- · Understand anatomy of a chromosome
  - Ona genetic code / double helix
  - histone protien protiens presents in the chromatins
  - chromatin long, coiled, thread-like structure / relaxed form of DNA in the nucleus of the cell
  - o coils -
  - o nucleosome -
  - sister chromatids structure that contains identical DNA copies that is formed during DNA replication
  - centromere cell structure that joins two sister chromatids / holds chromesomes together
  - chromesomes structure that contains DNA and corries genetic material from one generation to another / made up of chromatin
  - complexity is not related to chromesome number
  - 4 chromesomes = 8 chromatids
  - Bacteria is a prokaryote and has no nucleus
- Why is the cell cycle Important?

# **Bio Ch 9 Guide**

**H Kauffman** 



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