

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 53 Study Guide Answers

A Loxley



Bio Ch 53 Study Guide Answers:

The Enigmatic Realm of **Bio Ch 53 Study Guide Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Bio Ch 53 Study Guide Answers** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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