

Bio 21.1

Goals

- * Describe the process of DNA replication
- * Apply knowledge of DNA replication to explain differences in mutation rates between leading and lagging strands
- * Describe the importance of proteins
- * Characterize the mechanisms of protein folding
- * Describe the structure of proteins

Plan

Return semester finals (35 min)

DNA Replication (10 min)

Video: DNA Replication, Ameoba sisters (10 min)

The importance of proteins (5 min)

Video: The deal with protein (5 min)

Central dogma (10 min)

Video: What is DNA and how does it work? (5 min)

Four levels of protein folding (5 min)

Video: Proteins, Bozeman science (10 min)

Bio 21.2

Goals

- * Use central dogma of molecular biology to describe the steps of protein synthesis
- * Read exons into peptides

Plan

What good is DNA, anyway?

The central dogma of molecular biology

Video: Protein Synthesis and the Lean, Mean Ribosome Machines

Dramatis persona of protein synthesis

The sequence of events

Codons and Protein synthesis

Video: Protein Synthesis | Biology for All | FuseSchool

Practice worksheet

Bio 21.3

Goals

- * Describes the steps of protein synthesis

Plan

Review protein synthesis

Video: DNA, Hot Pockets, & The Longest Word Ever: Crash Course Biology #11

Activity: Acting out protein synthesis, alternative activity cut and tape

