

Download Dna And Protein Synthesis Review Guide

An embryonic cell divides again and again. Where there was one cell there are two, then four, then eight,... Each holds all the genetic information needed to create a human being. DNA is a long polymer made from repeating units called nucleotides. The structure of DNA is dynamic along its length, being capable of coiling into tight loops and other shapes. In all species it is composed of two helical chains, bound to each other by hydrogen bonds. Both chains are coiled around the same axis, and have the same pitch of 34 angstroms (\AA) (3.4 nanometres). DNA repair is a collection of processes by which a cell identifies and corrects damage to the DNA molecules that encode its genome. In human cells, both normal metabolic activities and environmental factors such as radiation can cause DNA damage, resulting in as many as 1 million individual molecular lesions per cell per day. Many of these lesions cause structural damage to the DNA molecule ... This lesson provides an overview of the process of protein synthesis and the organelles it involves. It follows the path of an mRNA molecule from the nucleus to the ribosomes, where proteins are ...