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Dna function and replication worksheet answers

In this analysis and discussion activity, students learn the basics of DNA functions, structures, and replication. The sequence of nucleotides in the gene determines the sequence of amino acids in the protein, which determines the protein structure and function. Different versions of the gene give instructions to make different versions of proteins that can cause different properties. Since many different proteins are needed for a cell to be alive, each cell requires a complete copy of DNA with all genes. Therefore, before the cell decomposes, it must copy all of its DNA. Students analyze DNA replication to understand how double-spiral dna structure, base pairing rules, and DNA polymerases work together to produce two identical replicas of the original DNA molecule. Student handouts are available in the first two attached files and as a Google document for online learning and distance learning. The teacher notes what is available in the last two attached files, provides teaching advice and background information and explains how this activity is aligned with the next generation of scientific standards (NGSS). In this analysis and discussion activity, students learn how DNA genes instruct us to create proteins that affect our properties. Students also analyze chromosome structures to understand how long DNA molecules fit inside the tiny nucleus. They analyze DNA replication to understand how double-spiral structure of DNA, base pairing rules, and DNA polymerases work together to produce two identical replicas of the original DNA molecule. This activity can be used to familiarize your students with key concepts about DNA or to review these concepts.

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