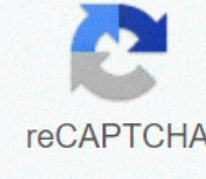




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## Drag and drop protein synthesis worksheet

OVERVIEW Includes all the main steps of protein synthesis and quiz at the end. Rewrite the DNA into mRNA, translate the mRNA using tRNA and determine the final protein. The responses for the drag window are only available for Transcription and Translation. Copy the problem, drag the contents of the window, and questions/answers into your notes. Stitch the notes together and add your name. Your teacher may ask you to submit your work. Drag the symbols into the fields in the drag window. Left-click the picture and hold it down to drag it. Not all symbols need to be used. Use the Check Answer button only after you have tried to resolve the issue. Press F11 to maximize the browser window. Now it's time to put everything together and look at the whole process of protein synthesis: Transcription + Translation. It starts with dna in the liver and ends with the final protein in the cytoplasm. To do this, we need to be able to read the genetic code as much as tRNA can. Since each 3-base sequence, or codon, codes the mRNA for one amino acid, we look into the amino acid in the codon table (i.e. we read what mRNA codons are encoding for). To use the codon table in general, start with the first mRNA base in the codon and find the first column of the table. Then find the second base of the mRNA and find the second column. Your selection of amino acids is now limited to the area in the shared area of columns 1 and 2. Now find the third mRNA base and follow it for a specific amino acid. Note the 3 letter abbreviation amino acid (i.e. HIS = Histidine). + + + DNA sequence under codes for a small portion of the protein. Rewrite the DNA to produce mRNA and translate the mRNA using tRNA into the correct amino acids. Then identify the protein. See kodon tables and amino acid sequences. English (United Kingdom) English (United States) Español (Latinoamérica) Shannan Muskopi November 22, 2020 In the past, I have used transcription coloring to reinforce the concept of central dogma because it shows how DNA is converted into RNA, which travels to ribosomes, where the protein is created from individual amino acids carried out during RNA transfer. This coloring book sheet doesn't work well for remote students during the 2020 pandemic, so I created this drag-and-drop alternative where students can tag images. There are three snapshots of this activity, the first two show images of the process, and the last slide asks students to answer text questions that describe different parts of the process. For example: What is the role of tRNA in the process? Students can also practice with this leaf on sickle cell genetics, which goes into greater detail about the relationship between proteins and the functions of these proteins. A single switch in the base can lead to a malfunctioning protein located in the. There is also a handout label that is similar but is designed for students to do on paper, in the classroom. Protein synthesis is one of the most basic biological processes by which individual cells create their specific proteins. As part of this process, both DNA (deoxyribonucleic acid) and different in their function of ribonucleic acids (RNA) are involved. This process is started in the nucleus of the cell, where specific enzymes unwind the necessary part of the DNA, which makes DNA available in this area and a copy of the RNA can be made. This RNA molecule then moves from the nucleus to the cell cytoplasm, where the actual process of protein synthesis takes place. Tuesday, December 17 Transcription Lecture Transcription POGIL Radiolab: Translation excerpt Home: Reading: Radiolab: Translation excerpt (only the first 10 min) What scientist are they sitting with for this speech? One person says that DNA is a book that creates your own readers – as explained, how is this not necessarily true for you as an individual? A lot of biologists say life started out as \_\_\_\_\_ without DNA. Edpuzzles: DNA, Hot Pockets, & Longest Word Ever Protein Synthesis (Teachers Pet) Wednesday, December 18 Translation POGIL Home View through the end of chapter questions (often useful on quizzes!) Edpuzzle – Transcription and Translation Overview Thursday, December 19th Work on POGILS and All Remaining Work Monday, January 6 BiomanBio: Protein Synthesis Race Quizlet Live on Protein Synthesis Tuesday, January 7th Quiz on Reading Take out Science – Protein Synthesis Activities Home Edpuzzles Transcription and Translation (Bozeman) Protein Synthesis and Lean, Medium Ribosome Machines Wednesday, January 8th Essay Essay Quiz – Homework For TEST!!!! Thursday, January 9 Degree Essays Table Top Transcription/Translation Reviews Home – Study for TEST!!!! Friday, January 10 Made for Google Drive™ This resource can be used by students on Google Drive or Google Classroom. To access this resource, you'll need to enable TpT to add it to google drive. For more information, see the FAQ and privacy policy. This is a great activity to strengthen the steps of protein synthesis. Students will follow the instructions to move their digital manipulative substances in transcription and translation modeling. Once it is over, there are questions that need to be monitored to check understanding. A great way to use manipulative digitally. No scissors or glue needed! All digital! StandardsConstruct explanations based on evidence of how the structure of DNA determines the structure of proteins that perform the basic functions of life through specialized cell systems. The evaluation does not include the identification of specific cell or tissue types, whole-body systems, specific protein structures and functions, or the biochemistry of protein synthesis. Synthesis.

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