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Dna mutation simulation worksheet answer key

Access the simulation here. 1. Transcribe and Translate your original DNA. Review these terms and write a brief definition. Transcription: Translation: 2. Identification of the main players shown in the simulation: mRNA, Codon, Amino Acids, tRNA, anticodon, ribosome. Use the image below to label these parts. 3. When the protein is finished, write down the sequence of amino acids indicated, there are 11. (Hint: click the stop button to make the model stop swaying.) 4. Click on the DNA edit, you will now see the original sequence used to make the protein: ATGCCGGGGCGGAGAGCTTGCTAATTGGCTTATAA Edit the DNA by converting all the first codon to AAA. Check for new proteins created by your new DNA. Explain how this changes protein. 5. Return the codon to its original state (ATG). Now place an extra A after G, strand you will read ATGA. Check for new proteins created by your new DNA. Explain how this changes protein. 6. Return the mRNA to its original state (ATG). Now change the second codon from CCA to CCC. Check for new proteins created by your new DNA. Explain how this changes protein. There are three mutations that you explore in this activity. You can use what you observe in an activity to help you answer questions or look for other sources if you're still confused. 7. First, you make a POINT mutation in your DNA. Explain what point mutations are how this can affect proteins created by genes. 8. The second mutation you explore is called the FRAMESHIFT mutation. Explain what this means and how it affects proteins. 9. The third mutation you explore is a special type of point mutation called SILENT mutation. Explain what this means. The activity used simulations from the Concord Consortium that showed how DNA is transcribed into RNA and then turned into proteins. It is a very clear animation and can be used alone as part of a lecture on protein synthesis. The simulation then allows you to edit the DNA which will then create a new protein. The worksheet asks students to review terms and label images showing tRNA, mRNA, codon, amino acids, and ribosomes. Students then edit the DNA in a certain way so they can observe the effects of point mutations, frameshift mutations, and silent mutations. At the point of mutation, one basis is changed that leads to differences in amino acids. Students do not need a codon chart to complete this activity. You can also do this activity with the class if you have a projector, this will also allow more discussion about why some mutation points change the protein output and why some are silent. Class Level: 10-12: 15-20 minutes PDF Download Google Doc Key (TpT) HS-LS1-1 Create an explanation based on about how dna structures determine the structure of proteins that perform important functions of life through the system HS-LS3-1 cells Ask questions to clarify the relationship about the role of DNA and chromosomes in coding instructions for characteristic traits passed from parent to offspring. Access the simulation here. 1. Transcribe and Translate your original DNA. Review these terms and write a brief definition. Transcription: Translation: 2. Identification of the main players shown in the simulation: mRNA, Codon, Amino Acids, tRNA, anticodon, ribosome. Use the image below to label these parts. 3. When the protein is finished, write down the sequence of amino acids indicated, there are 11. (Hint: click the stop button to make the model stop swaying.) 4. 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