Protein Synthesis Unit 6

Test Date:
Friday, Nov. 22

I CAN –

- ☐ 1. Describe the process and purpose of transcription using models, diagrams, and words. (6C)
- ☐ 2. Describe the process and purpose of translation, using models, diagrams, and words. (6C)
- ☐ 3. Compare the structures and roles of DNA, mRNA, and tRNA, including their number of strands, bases, locations in the cell, and purpose in protein synthesis. (6C)
- ☐ 4. Determine the amino acid sequence of a DNA sequence. (6C)
- ☐ 5. Interpret and explain how cell specialization/differentiation is controlled by gene expression. (5B)
- ☐ 6. Identify that gene expression is a regulated process. (6D)
- ☐ 7. Recognize and interpret situations where the environment affects the expression of genes. (5B)
- ☐ 8. Identify a mutation and name the type of mutation within a DNA strand. (6E)
- ☐ 9. Describe how mutations in the DNA sequence affects the amino acids in a protein. (6E)
- ☐ 10. Predict how a change in the DNA strand will affect the amino acid sequence of a protein. (6E)

Words to Know

Transcription, translation, protein synthesis, polypeptide, amino acid, rRNA, mRNA, tRNA, codon, anti-codon, ribosome, RNA polymerase, intron, exon, uracil, gene expression, mutation, frameshift mutation, insertion mutation, deletion mutation, point mutation, substitution mutation, cell differentiation

Calendar

Monday 11/11	Tuesday 11/12	Wednesday 11/13	Thursday 11/14	Friday 11/15
VETERANS DAY **Cell Energy Quiz**	**Topic:** Protein Synthesis **Activities:** Cell Energy Quiz Analysis Protein Synthesis explained - PP **By the end of the period I can:** 1, 2, 3	**Topic:** Protein Synthesis  **Activities:** Protein Synthesis explained - PP **BTEOTP I can:**1,2,3,	**Topic:** Protein Synthesis **Activities:** Protein Synthesis drawing and article **By the end of the period I can:** 1, 2, 3, 4	**Topic:** Protein Synthesis **Activities:** Draw it to know it – Understanding Diagrams **BTEOTP I can:** 1, 2, 3, 4
Monday 11/18	**Tuesday 11/19**	**Wednesday 11/20**	**Thursday 11/21**	**Friday 11/22**
Topic: Cell Differentiation & Gene Expression **Activities:** Gene Regulation video & Bunny Article **By the end of the period I can:** 5, 6, 7	**Topic:** Gene Expression & Mutations **Activities:** Mutation Notes and Blocks **By the end of the period I can:** 5, 6, 7, 8, 9, 10	**Topic:** Mutations **Activities:** Mutations Practice Sheet **By the end of the period I can:** 5, 6, 7, 8, 9, 10	**Topic:** Review Cell Energy & Protein Synthesis Units **Activities:** Review Sheet/Game **BTEOTP I can:** ALL!	**Cell Energy & Protein Synthesis Test**

**** This is a tentative calendar and subject to change.