

DNA Transcription - Translation Activity

Critical Thinking Exercise

Organisms are made up of proteins that are, in turn, made up of amino acids. The amino acids needed for protein synthesis by each organism is encoded in their DNA. Using the processes of *transcription* and *translation*, you can, theoretically start with a strand of DNA and calculate the amino acid chains for which an organism is coded.



In this activity, students will be given three strands of DNA. Using the different resources provided, they will determine the amino acids for which the DNA is coding and the organisms that would result from their protein synthesis.

Resources Needed:

1. Transcription to Protein Synthesis sheet
2. Genetic Code chart
3. Amino Acid Building Blocks of Organisms chart

Procedure:

1. Examine the three strands of DNA provided.
2. **Transcription:** On the worksheet, make the DNA strand into mRNA codons (review **Transcription to Protein Synthesis sheet**).
3. **Translation:** On the worksheet, make the mRNA codons into tRNA codons (review **Transcription to Protein Synthesis sheet**).
3. **Amino Acid Chains:** Using the **Genetic Code chart**, fill in the amino acids for each DNA strand.
4. **Organisms:** Using the **Amino Acid Building Blocks of Organisms chart**, find which three organisms you have decoded.
5. In the last step, can you speculate what these three organisms represent?

Next Generation Science Standards:

Disciplinary Core Ideas

LS1.A: Structure and Functions

- All cells contain genetic information in the form of DNA molecules. Genes are regions in the DNA that contain the instructions that code for the formation of proteins.

Performance Expectations - Students who demonstrate understanding can:

HS-LS3-1. Ask questions to clarify relationships about the role of DNA and chromosomes in coding the instructions for characteristic traits passed from parents to offspring.

Sample Questions Dna Transcription And Translation

Bloomfield,Catherine E. MacGowan

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