DNA Made Easy

Use the colorforms to act out DNA replication and protein synthesis. Take a few minutes to look over what pieces the kit contains. When you put nucleotides together, if you overlap the pieces a little bit, they will stick together making a molecule you can pick up.

1. DNA replication

On one green board, lay out the 2 long DNA molecules. Use the colorforms and simulate DNA replication.

2. Protein Synthesis

A. Transcription

On another green board lay out a double helix of DNA. Transcribe a mRNA molecule.

B. Translation

Move the mRNA molecule to another green board and use the pieces to simulate protein synthesis.

3. When you are comfortable with the simulations above, call over your teacher and have your worked checked.

In Kit

mRNA tRNA ribosome nucleotide

DNA strand amino acid

Not in kit

DNA Polymerase RNA Polymerase