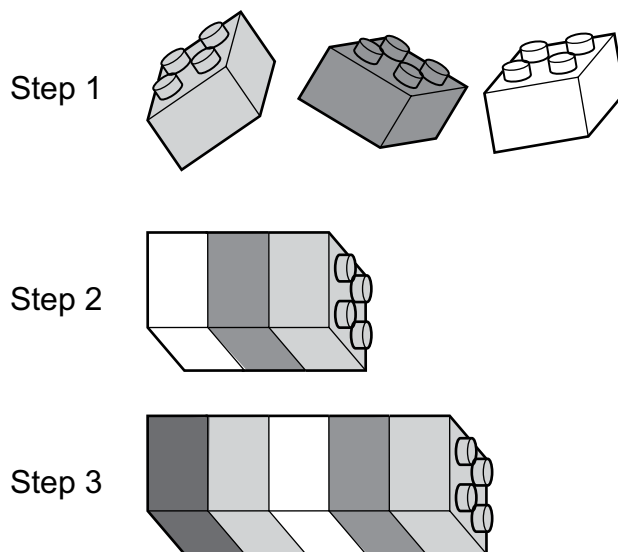


4. Use the model below to answer the question.

Protein Formation Model



A teacher demonstrated protein formation to a science class. The model shows three steps the teacher used in the demonstration. How can the steps in the model **best** be described?

- A. In Step 1, amino acid monomers are present. In Step 2, the monomers are attached together to form a protein polymer. In Step 3, more amino acid monomers are added to the chain, making a larger protein.
- B. In Step 1, nucleotide monomers are present. In Step 2, the monomers are attached together to form a protein polymer. In Step 3, more nucleotide monomers are added to the chain, making a larger protein.
- C. In Step 1, amino acid polymers are present. In Step 2, the polymers are attached together to form a protein monomer. In Step 3, more amino acid polymers are added to the chain, making a larger protein.
- D. In Step 1, nucleotide polymers are present. In Step 2, the polymers are attached together to form a protein monomer. In Step 3, more nucleotide polymers are added to the chain, making a larger protein.

Item Information	
Alignment	BIO.A.2.2.2
Answer Key	A
Depth of Knowledge	2
p-value A	63% (correct answer)
p-value B	12%
p-value C	17%
p-value D	8%
Option Annotations	<p>A. Key: Amino acids are the monomers, or subunits, that assemble into a protein polymer, which becomes a larger protein with the addition of more amino acid monomers.</p> <p>B. Nucleotides are the monomers of nucleic acids.</p> <p>C. Monomers are the smaller subunits that assemble into a larger polymer.</p> <p>D. Nucleotides are the monomers of nucleic acids, and monomers are the smaller subunits that assemble into a larger polymer.</p>