

### Inputs and Outputs:

#### Inputs-

Sunlight, water and carbon dioxide

#### Outputs-

Oxygen and glucose

### Purpose:

Protein synthesis is the process whereby cells make proteins. This creation of proteins is highly important as it allows for our bodies to regulate and function normally.

### Process:

#### Transcription-

Transcription involves copying a gene's DNA sequence to make an RNA molecule. This is performed by enzymes called RNA polymerases, which link nucleotides to form an mRNA strand.

#### Translation-

mRNA formed in transcription is transported out of the nucleus to the ribosome. Here, it directs protein synthesis. The mRNA passes through the ribosome and tRNA interacts with it, adding amino acids together to make a protein chain.

#### Sample Response-

Protein synthesis involves two processes, transcription and translation. Transcription involves copying a gene's DNA sequence to make an RNA molecule. This is performed by enzymes called RNA polymerases, which link nucleotides to form an mRNA strand. In the translation process, the mRNA formed in transcription is transported out of the nucleus to the ribosome. Here, it directs protein synthesis. The mRNA passes through the ribosome and tRNA interacts with it, adding amino acids together to make a protein chain.



By abcdef12345678910

[cheatography.com/abcdef12345678910/](https://cheatography.com/abcdef12345678910/)

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