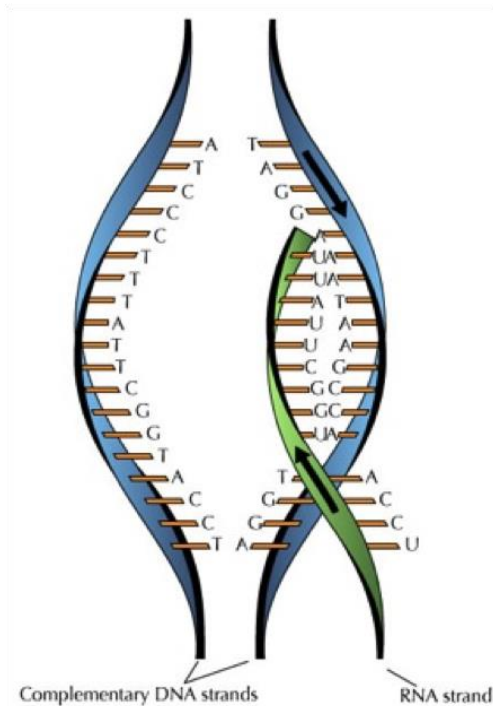


# Transcription and Translation

## Picture Vocabulary

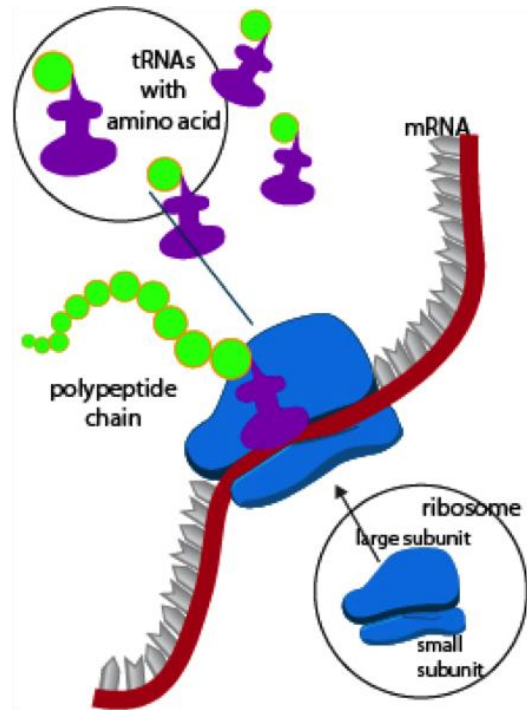
Biology

# Transcription



The process in which a strand of DNA is copied into an RNA strand for the purpose of protein synthesis.

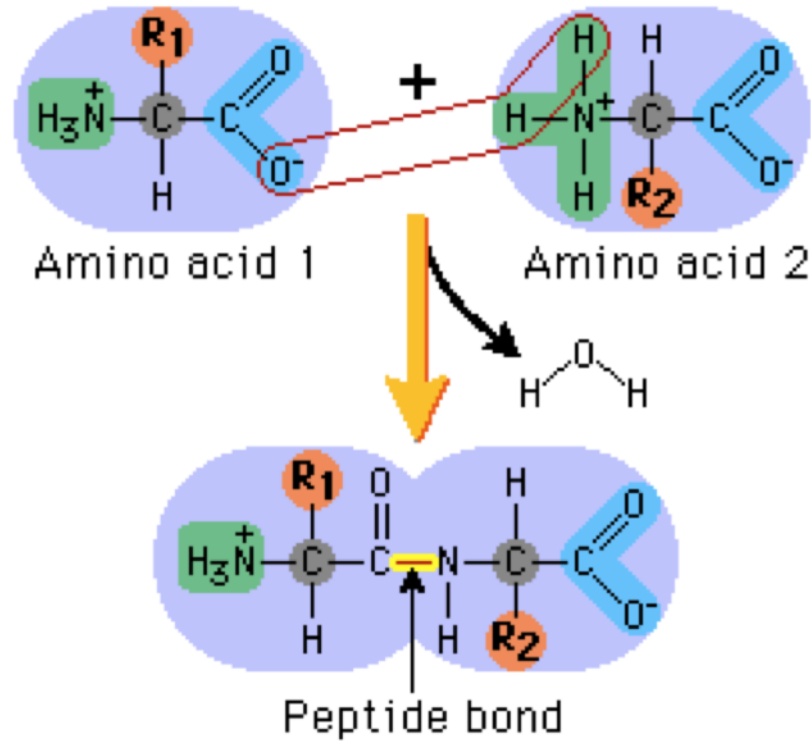
# Translation



The process by which the sequence of nucleotides in a messenger RNA is converted by a ribosome and transfer RNAs into a polypeptide with a specific sequence of amino acids.

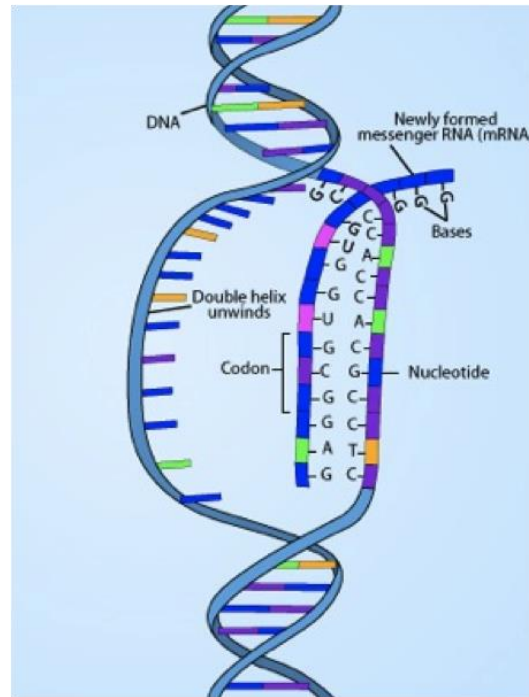


# Peptide Bond



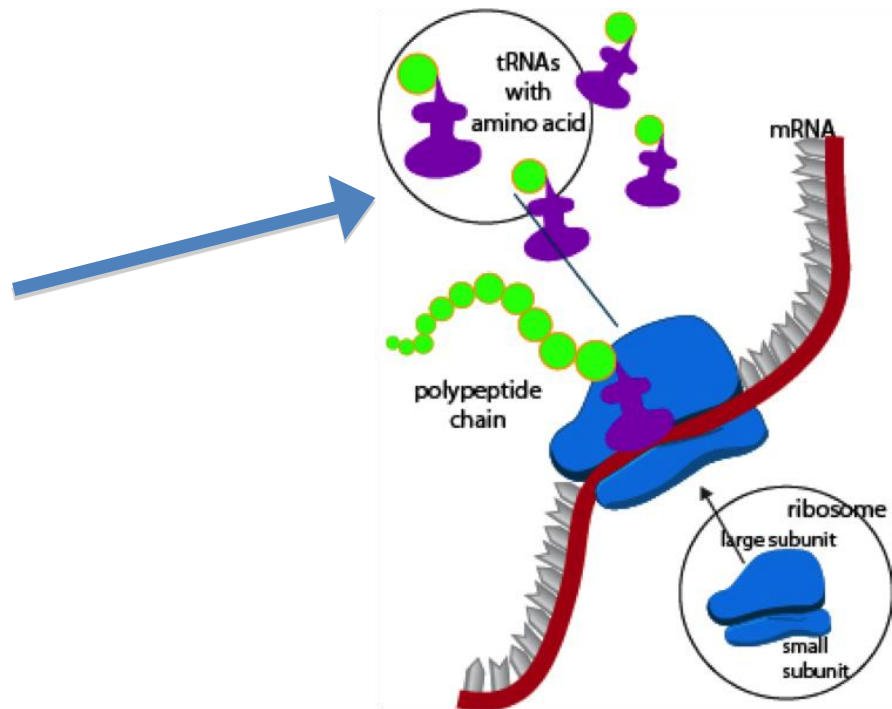
The type of covalent bond that forms between amino acids.

# Messenger RNA (mRNA)



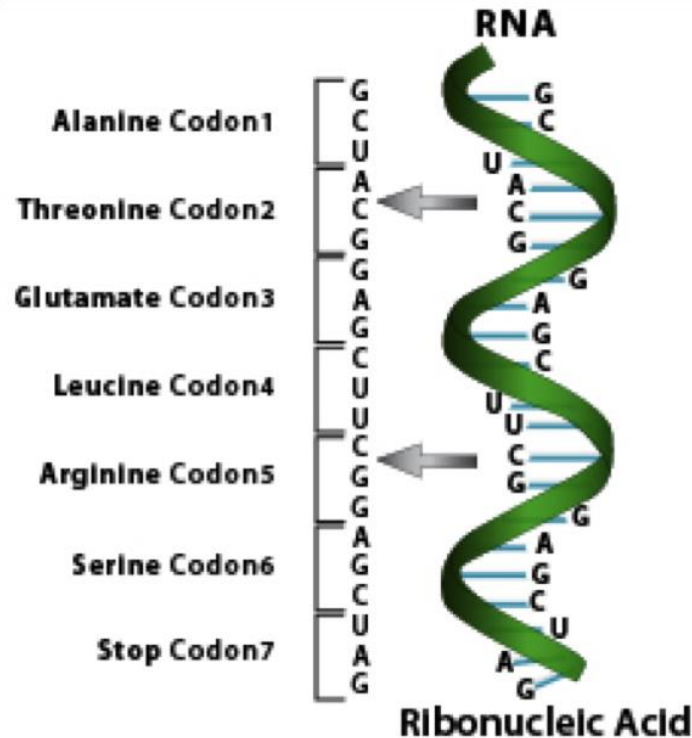
An RNA copy of a DNA sequence that carries the genetic information to a ribosome to make a protein.

# Transfer RNA (tRNA)



An RNA molecule that is responsible for transporting amino acids to the ribosome to be used in the synthesis of proteins.

# Codon



A sequence of three nucleotides in mRNA that encode a specific amino acid or a signal to stop translation.

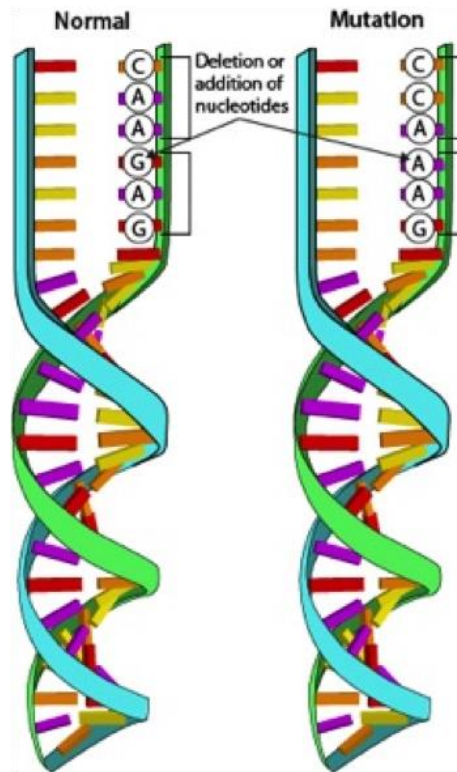
# Genetic Disorder



A disorder that is caused by an error in the DNA sequence, or by the presence or absence of specific alleles.



# Frameshift Mutation



A mutation that adds or removes nucleotides in numbers other than multiples of three, which causes all of the codons following the mutation to change.

# Point Mutation



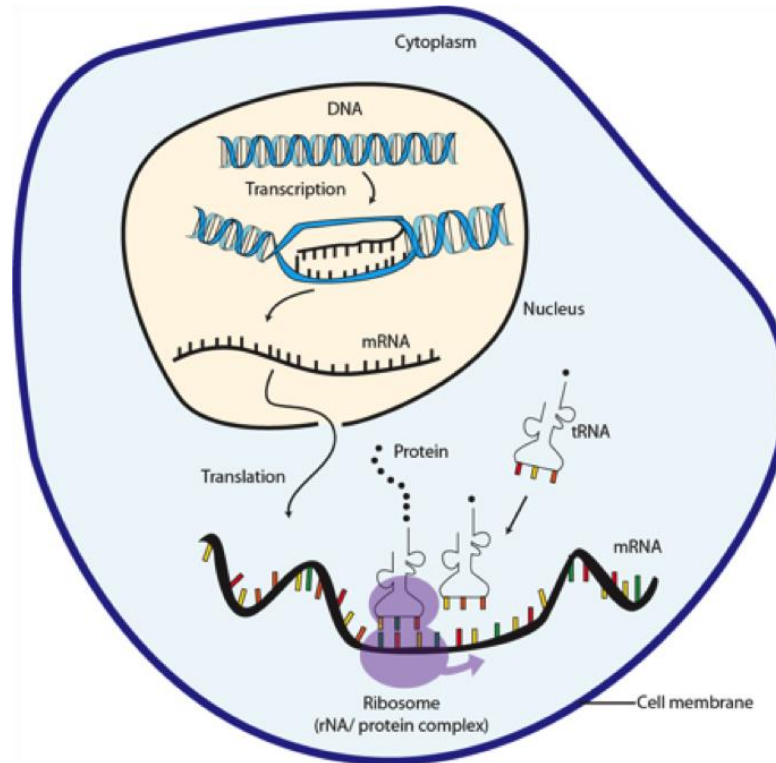
A change in a single-base pair of a DNA sequence.

# Mutagen



Any substance that causes mutations in genes.

# Ribosomal RNA



An RNA molecule that makes up a component of a ribosome.