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### Section 12-3 RNA and Protein Synthesis

(pages 303–306)

#### Key Concepts

- What are the three main types of RNA?
- What is transcription?
- What is translation?

#### The Structure of RNA (page 303)

- List the three main differences between RNA and DNA.
  - RNA has ribose sugar instead of deoxyribose.
  - RNA is generally single-stranded, instead of double-stranded.
  - RNA contains uracil in place of thymine.
- What is the importance of the cell's ability to copy a single DNA sequence into RNA?
 

It makes it possible for a single gene to produce large numbers of RNA molecules.

#### Types of RNA (pages 306–307)

- What is the one job in which most RNA molecules are involved?
 

Most are involved in protein synthesis.
- Complete the table about the types of RNA.

TYPES OF RNA

Type	Function
Messenger RNA	Carries copies of the instructions for assembling amino acids from DNA to the rest of the cell.
Ribosomal RNA	Is a part of ribosomes.
Transfer RNA	Transfers each amino acid to the ribosome to help assemble proteins.

#### Transcription (page 305)

- Circle the letter of each sentence that is true about transcription.
  - During transcription, DNA polymerase binds to RNA and separates the DNA strands.
  - RNA polymerase uses one strand of DNA as a template to assemble nucleotides into a strand of RNA.
  - RNA polymerase binds only to DNA promoters, which have specific base sequences.
  - Promoters are signals in RNA that indicate to RNA polymerase when to begin transcription.

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