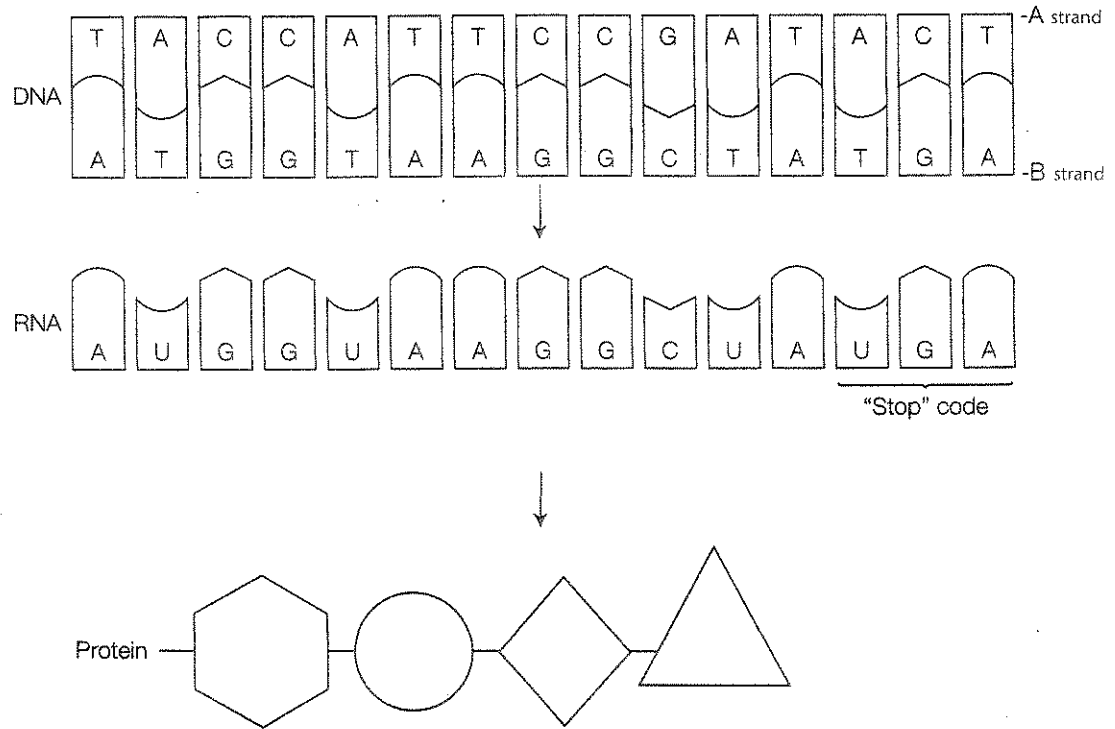


**Genetics: The Science of Heredity** ▪ Chapter Test

**Using Science Skills**

Use the figure below to answer questions 26–28. Write your answers in the spaces provided.



26. **Applying Concepts** What process is illustrated in the figure above?

\_\_\_\_\_

27. **Inferring** Which strand of the DNA molecule, A or B, was used to produce the messenger RNA? Explain your answer.

\_\_\_\_\_

\_\_\_\_\_

28. **Interpreting Diagrams** What three-letter code tells that the protein is complete?

\_\_\_\_\_

**Essay**

Write an answer for each of the following questions on a separate sheet of paper.

29. Why is messenger RNA necessary for protein synthesis?

30. Explain how you could determine whether the seeds in a packet of round pea seeds have the genotype  $RR$  or  $Rr$ , in which  $R$  represents round seeds and  $r$  represents wrinkled seeds.