Sci 10 The process of Gene Expression: Transcription and Translation Name:

1. Complete the phrases below using the word bank.
2. Enter each one into a panel in correct order.
3. Draw what is happening in each panel to create a comic strip of the process of translating the genetic code into a protein (gene expression).

Word bank: (Some words may be used more than once. Some may not be used).

DNA, nucleus, cytoplasm, cell, mRNA, tRNA, ribosome, amino acid, protein, codon

* \_\_\_\_\_\_\_\_\_\_takes the copied message out of the \_\_\_\_\_\_\_\_\_\_\_\_\_.
* DNA molecule exists as a double helix in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ move down the RNA strand “reading the message” three bases at a time, increasing the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ chain.
* DNA partially unwinds as \_\_\_\_\_\_\_\_\_\_\_\_\_molecule copies a section of DNA that is needed to make a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ brings amino acids to ribosomes.
* Ribosomes attach to the \_\_\_\_\_\_\_\_\_\_\_\_\_strand.

|  |  |  |
| --- | --- | --- |
| 1 | 2 | 3 |
| 4 | 5 | 6 |