Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Candy Factory Transcription**

In your textbook, read the pages about transcription and translation. Look at the candy factory diagram. Match each part of it to the biological system you just read about and fill out the data table as you go.



|  |  |
| --- | --- |
| **Candy Factory** | **Protein Synthesis in Cells** |
| Sally |  |
| Sally’s Office |  |
| Recipe |  |
| Messenger |  |
| Assembly Stations |  |
| People at Stations |  |
| Numbers People are Holding |  |
| Candy |  |

1. In your own words, write a description of protein synthesis using the following key words: tRNA, codon, transcription, translation, ribosome, DNA, RNA, mRNA, nucleus, nuclear membrane, amino acids, protein, anticodon.
2. What would happen to your body if protein synthesis didn’t produce the right proteins?
3. Why might DNA never leave the nucleus?
4. How is the code for making protein written in DNA?