Student Sheet Name _____

Title: Sally's Candy Factory

Introduction: The cells ability to make protein determines the function and structure of a body. It is very important that it be done correctly. It is a complicated process that relies on several macromolecules. To better understand it, we can make an analogy and compare it to a Candy Factory, run by Sally. In this activity, you will compare the Candy Factory to protein synthesis (making) and create and act out an analogy of your own.

Procedures:

1. Find the pages in your textbook that might help you. Skim read them and look at the pictures.
2. Examine the Candy Factory diagram. You need to match each of the part of it to the biological system you just read about. Fill in the data table as you go.
3. Compare your results with your group and make sure you agree before you go on.
4. Write the "story" of protein manufacture in the space below the data. Use the biological terms you found in your book.
5. With your group, decide on another analogy that could represent protein synthesis. Assign parts and dialog and be ready to perform it for the class.

Data:

Sally's	Protein Synthesis in a cell
Sally	
Recipe	
Messenger	
Assembly Stations	
People at stations	
Numbers people are holding at stations	
Candy	

The Story:

Our Skit:

Characters:

Dialog:

Analysis:

1. What would happen in a body if protein synthesis did not produce the correct proteins?

2. Why might DNA never leave the nucleus?

3. How is the “code” for making protein written in DNA?

Conclusion: