

Name: _____

Date: _____

Period: _____

Now that you have learned about every way molecules move across the cell membrane, you know that some ways DON'T use energy/ATP (passive transport) and others DO use energy/ATP (active transport). Using the PowerPoint notes and textbook, you will complete an animation and explanation of a protein doorway (either open OR closed), endocytosis, or exocytosis.

For the animation part of this project you will use one of three apps – **Hyperlapse, Stop Motion, OR Explain Everything**. After creating your animation, you will import your products into iMovie or Explain Everything for the final editing. Check out some examples of animations created with these apps:

Hyperlapse - <https://www.youtube.com/watch?v=WYOFdVwvjP4>

Stop Motion – https://www.youtube.com/watch?v=aM_GxvjtYXE

Explain Everything – <https://www.youtube.com/watch?v=lfu0HZ98neg>

****Planning out what your animation will look like on paper first will really help you create a great presentation. Create steps in your paper drawings to show what will happen in your animation. Also, it's important to write an explanation about your animation – so make sure that the animation is made first, and then write an explanation about it.****

This project is worth 40 points.

A few requirements:

- This is an animation - so you must show movement of cell structures and particles traveling across the membrane in your video
- In your drawing include a phospholipid bilayer (two layers of heads and tails).
- Make sure you label all structures once, high/ low concentration, inside/outside of the cell, and if ATP is used.
- Make sure you provide details in your explanation and be specific.
- Provide your sources for any info found in the textbook or online

1. Write the explanation for your animation here... (after you draw out your steps)

Type of membrane transport (circle one)

Open protein doorway

Closed protein doorway

Endocytosis

Exocytosis

2. Plan out your animation of a type of membrane transport below...

App being used _____ Materials _____

Type of membrane transport (circle one)

Open protein doorway

Closed protein doorway

Endocytosis

Exocytosis