**The Structure of the Cell**

Cornell Notes

**Membrane:**

Name:

What three functions does a cell membrane perform?

What makes a phosphate?

Which part of a phospholipid molecule is polar?

Why do biologists use the fluid mosaic model when describing the cell membrane?

Why are the lipids in the middle of the phospholipid bi-layer?

What does cholesterol do in a plasma membrane?

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What are the three kinds of proteins found in the cell membrane?

Which of the three proteins aid in the communication by the cell?

**Diagram** a cell membrane with phospholipids, cholesterol, and three kinds of proteins:

Same:

Gates:

Channels:

Compare and contrast protein channels and protein gates:

What is insulin?

What is a molecule that requires a protein gate? Why?

What is an aquaporin?

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