Cell Membrane Dynamics

|  |  |  |  |
| --- | --- | --- | --- |
| Membrane Component | Description/Examples | Function | Drawing |
| Phospholipids |  |  |  |
| Cholesterol |  |  |  |
| Proteins |  |  |  |
| Channels/Carriers |  |  |  |
| Pumps |  |  |  |
| Glycoproteins |  |  |  |

**Membrane Dynamics**

Movement:

Formation:

Plasma Membrane Transport (Slides 9-10)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Description | Substances moved | Examples |
| Passive Transport | No ATP |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Active Transport | Requires ATP |  |  |
| Protein Pumps |  |  |  |
| Endocytosis |  |  |  |
| Exocytosis |  |  |  |

How do transport proteins contribute to a membrane’s selective permeability?

Explain how a protein-secreting cell can synthesize and secrete its product without the protein ever having to cross a membrane.

**Osmosis: Types of Solutions** (Slides 11-15)

|  |  |  |  |
| --- | --- | --- | --- |
| Solution | Definition | Drawing | Example |
| Hypotonic |  |  |  |
| Hypertonic |  |  |  |
| Isotonic  |  |  |  |

Water Pressure: Slides 16-20 and Bozeman Videos.