Biology Cornell Notes: "Active Transport & Homeostasis" DATE:

STUDY QUESTIONS:

What is Active Transport? (DOK1)

How does a cell move substances against its concentration gradient? (DOK2)

Compare and contrast protein pumps and bulk transport. (DOK3)

NOTES:

Active Transport

- Molecules move across the membrane _____their _____
- (**Low to High**)
- _____ is required.

- **2 Types:**

1. Protein Pumps
2. Bulk Transport

Protein Pumps

- Transport small molecules and ions AGAINST their concentration gradients **(**_____→ _____**)** using _____.

Bulk Transport

- Larger molecules (proteins, starch) are transported by_____**.**
  - **Endocytosis:** vesicles move substances _____.
  - **Exocytosis:** vesicles move substances _____.

Special Types of Endocytosis:
Phagocytosis: _____
Pinocytosis: _____

Homeostasis

- **Homeo**=_____
- **Stasis**=_____
- The process by which an _____ _____ _____ is kept in _____, or stable, in spite of changes in the external environment.
- **Examples:**
  - Internal Temperature (sweating removes excess body heat)
  - Water Balance (kidneys adjust water amount in urine)
  - A physical response to stress (breathing & heart rate increases, pupils dialate, sweating)

SUMMARY: