Today's goals....

- *To describe Kingdom: Protista*

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11/15	*Classification 3: Bell Work Protists*	*9*

Mini Quiz: Daily
Topic Quiz: Friday
Unit Exam: 11/22

The dichotomous key shown below can be used to identify birds *W*, *X*, *Y*, and *Z*.

Bird W Bird X Bird Y Bird Z

Dichotomous Key to Representative Birds

1. a. The beak is relatively long and slender ..... *Certhidea*
   b. The beak is relatively stout and heavy ..... go to 2
2. a. The bottom surface of the lower beak is flat and straight ..... *Geospiza*
   b. The bottom surface of the lower beak is curved ..... go to 3
3. a. The lower edge of the upper beak has a distinct bend ..... *Camarhynchus*
   b. The lower edge of the upper beak is mostly flat ..... *Platyspiza*

1. Bird X most likely falls under which classification?

a. Certhidea
b. Geospiza
c. Camarhynchus
d. Platyspiza

D

2. Why are Protists considered the "Junk Drawer Kingdom"?

They do not fall into the other 4 kingdoms

3. What is the cell number for protists?

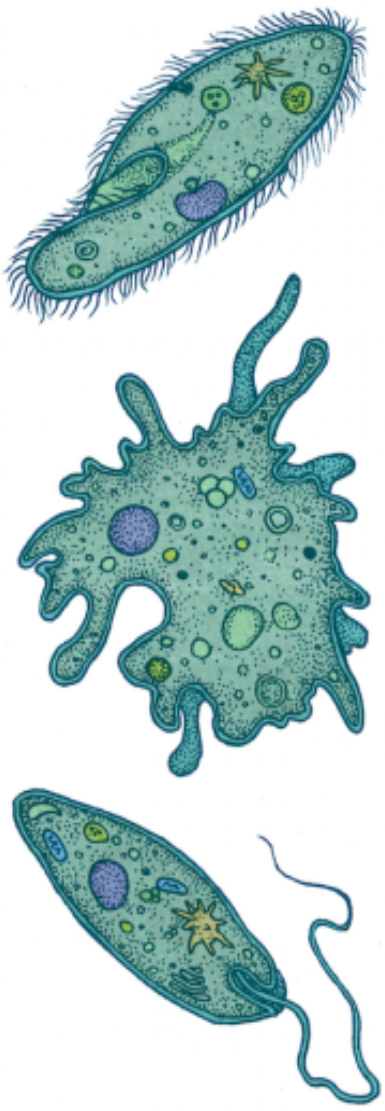
Unicellular

4. What is the cell type of a protist?

Eukaryote

5. What is the energy source of a protist?

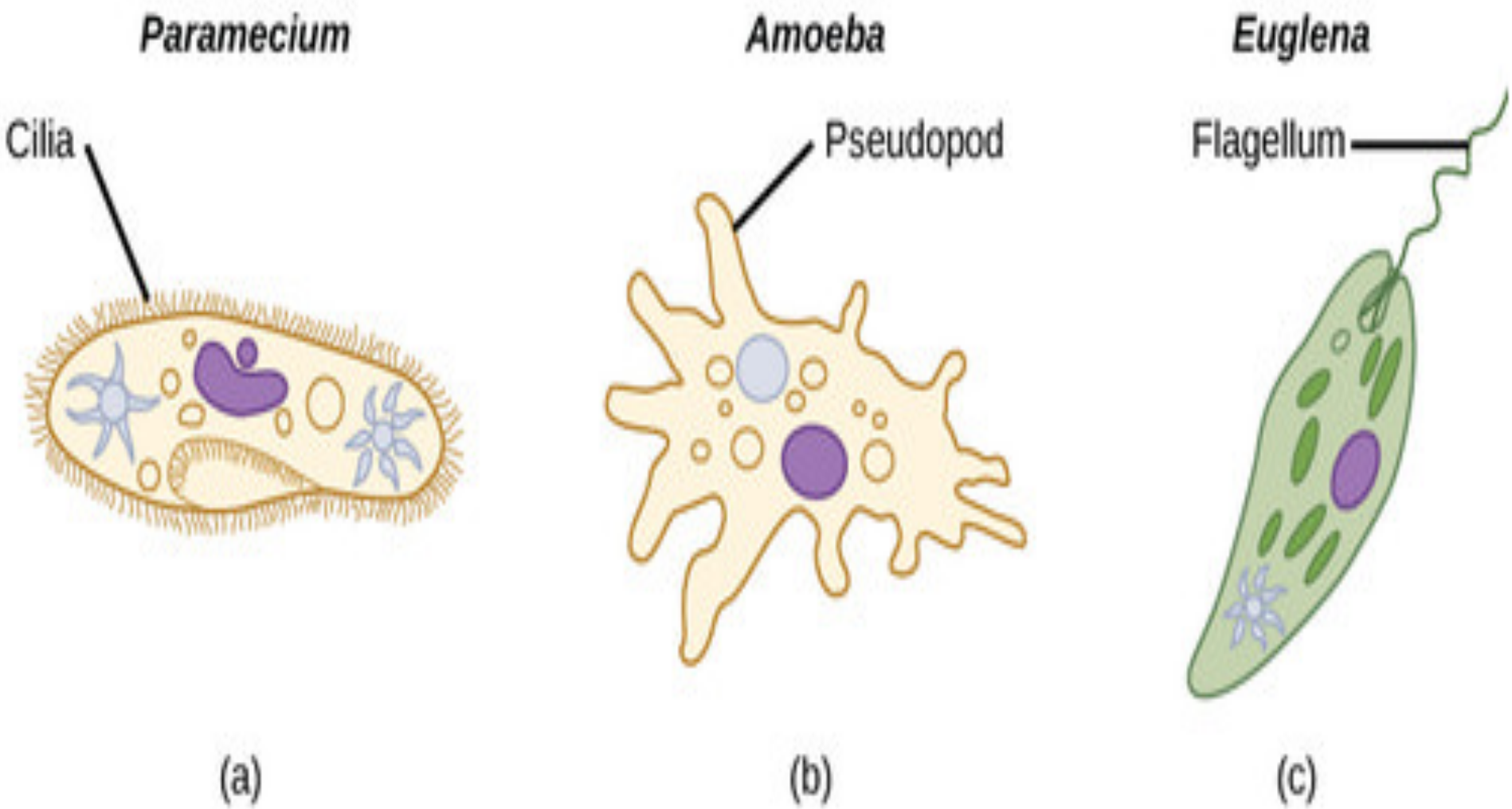
Varies from Species: Autotrophic and Heterotrophic



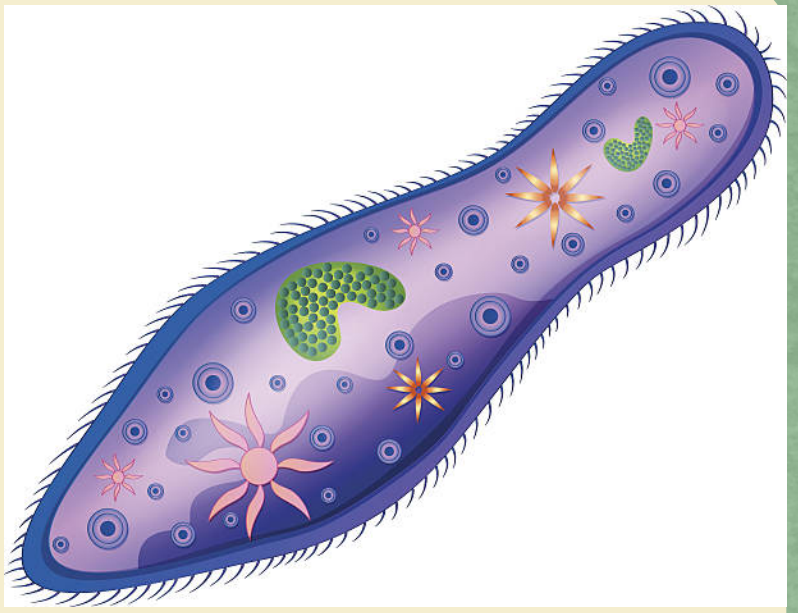
5 Kingdoms of Life

- ✓ Plants
- ✓ Animals
- ❑ Fungi
- ❑ **Protista**
- ❑ Monera

Locomotion = Movement


Paramecium
Cilia
Amoeba
Pseudopod
Euglena
Flagellum
(a)
(b)
(c)

Paramecium



Energy Source: Heterotrophic

Mobility/ Locomotion: Cilia “Hair Like”

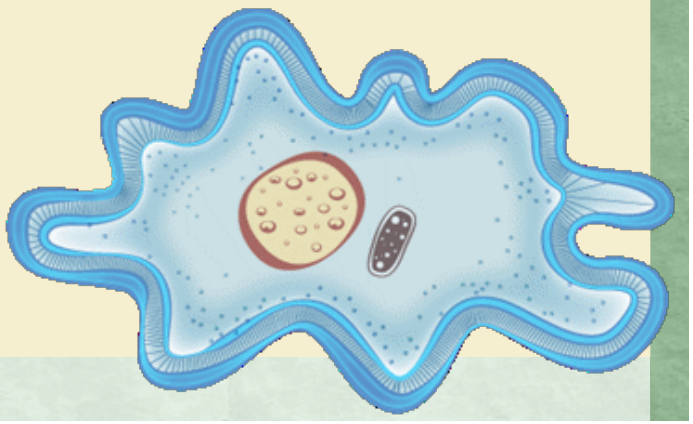
Unique: Elongated & Oral groove

Amoeba

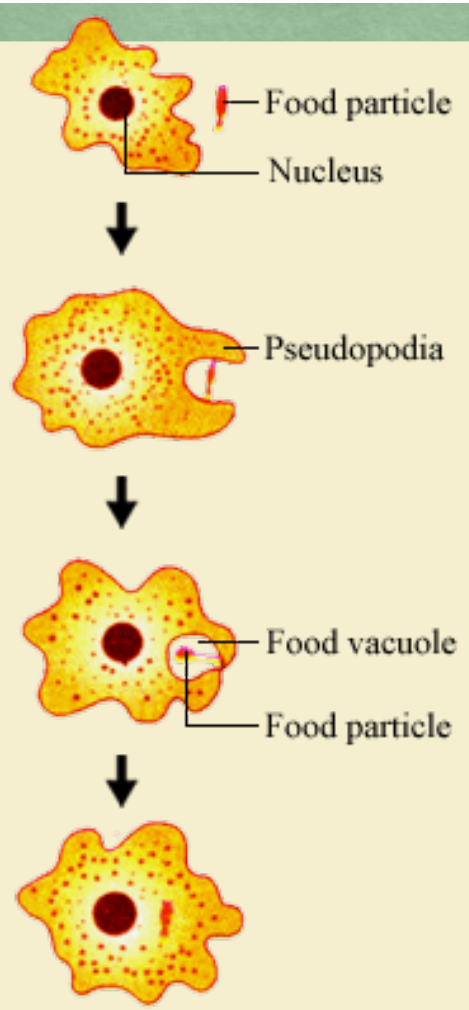
Energy Source: Heterotrophic=
Phagocytosis=Wraps around food

Mobility/ Locomotion: Pseudopod= “False Feet”

Unique: Food Vacuoles

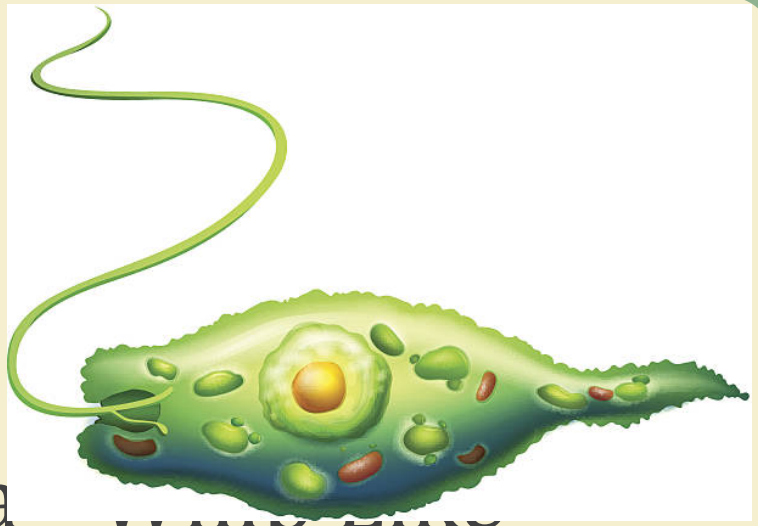


Amoeba



Heterotrophic= Phagocytosis=Wraps around food

Euglena



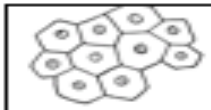
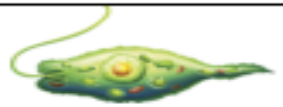
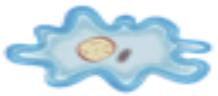
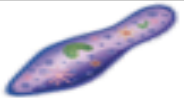
Energy Source: Autotrophic

Mobility/ Locomotion: Flagella - Whip-Like

Unique: Eye spot (Stigma), Pear Shaped Chlorophyll (Green Color)

****Autotrophic = Green Color****

Word Bank: *Terms are underlined and description is in italics.*

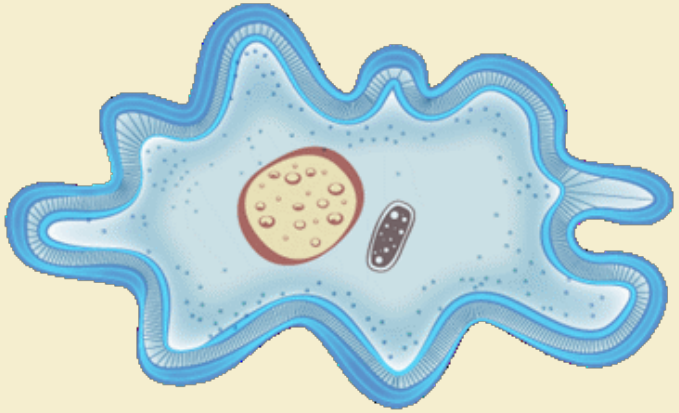
 ***Multicellular***	 ***Unicellular***	*Has a Nucleus (Eu=True Nucleus)* ***Eukaryotic***	*Lacks a Nucleus (Pro=NO)* ***Prokaryote***	*Protects the DNA in a cell* ***Nucleus***	 ***Heterotrophic***	 ***Autotrophic***
"Whip-Like" **Flagella**	*"Hair-Like"* **Cilia**	*"False-Feet"* **Pseudopod**	*Protists* ---------->	 ***Euglena***	 ***Amoeba***	 ***Paramecium***

Use the word bank above and your class notes to complete the chart below.

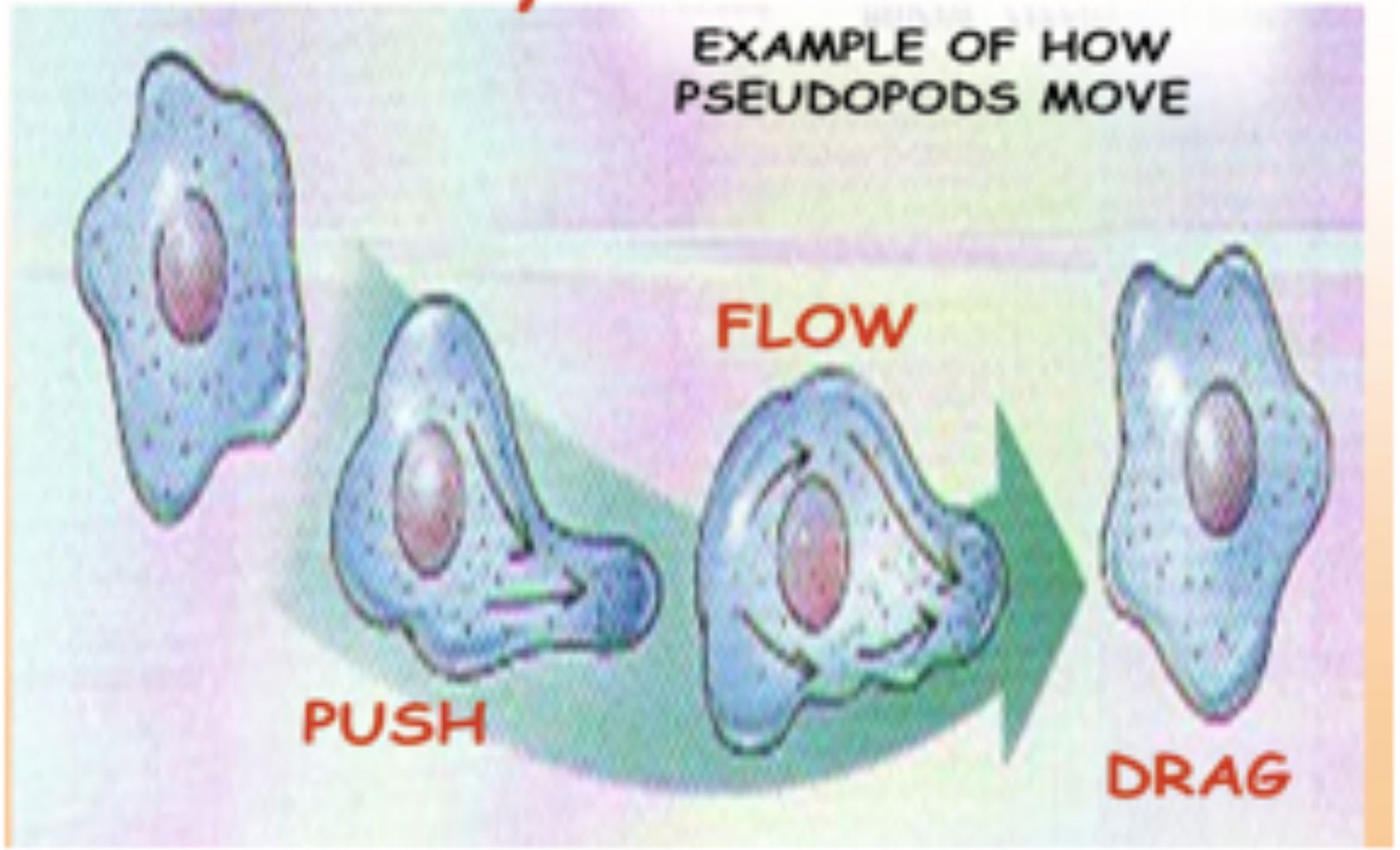
Kingdom	**Cell Number** *Unicellular/Multicellular*	**Cell Type** *Prokaryote/Eukaryote*	**Energy Source** *Autotrophic/Heterotrophic*	**Mobility/Locomotion** *Flagella/Cilia/Pseudopod*
Protist: Euglena.	**Unicellular**	**Eukaryote**	**Autotrophic**	**Flagella**
Protist: Amoeba	**Unicellular**	**Eukaryote**	**Heterotrophic.**	**Pseudopod**
Protist: Paramecium	**Unicellular**	**Eukaryote**	**Heterotrophic**	**Cilia**

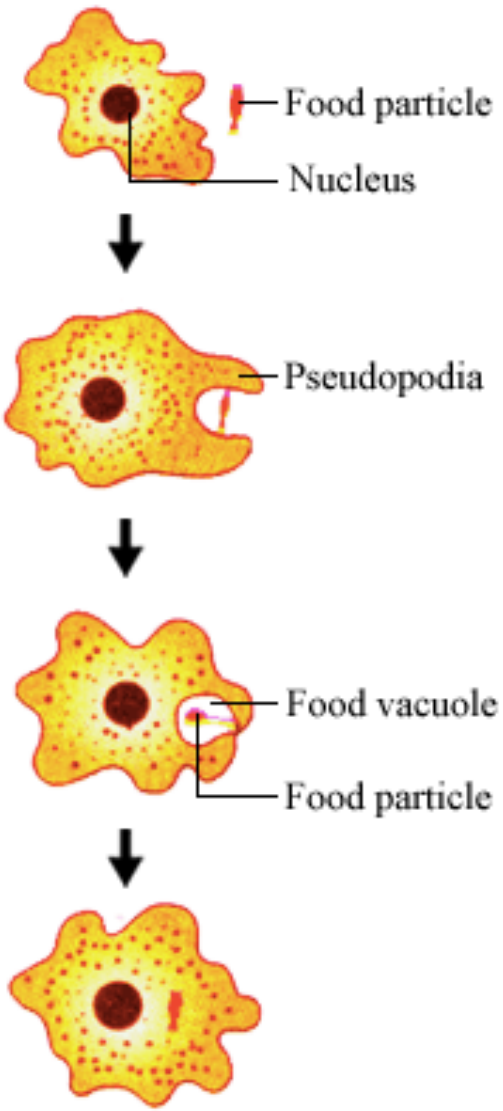
Lab Goals..

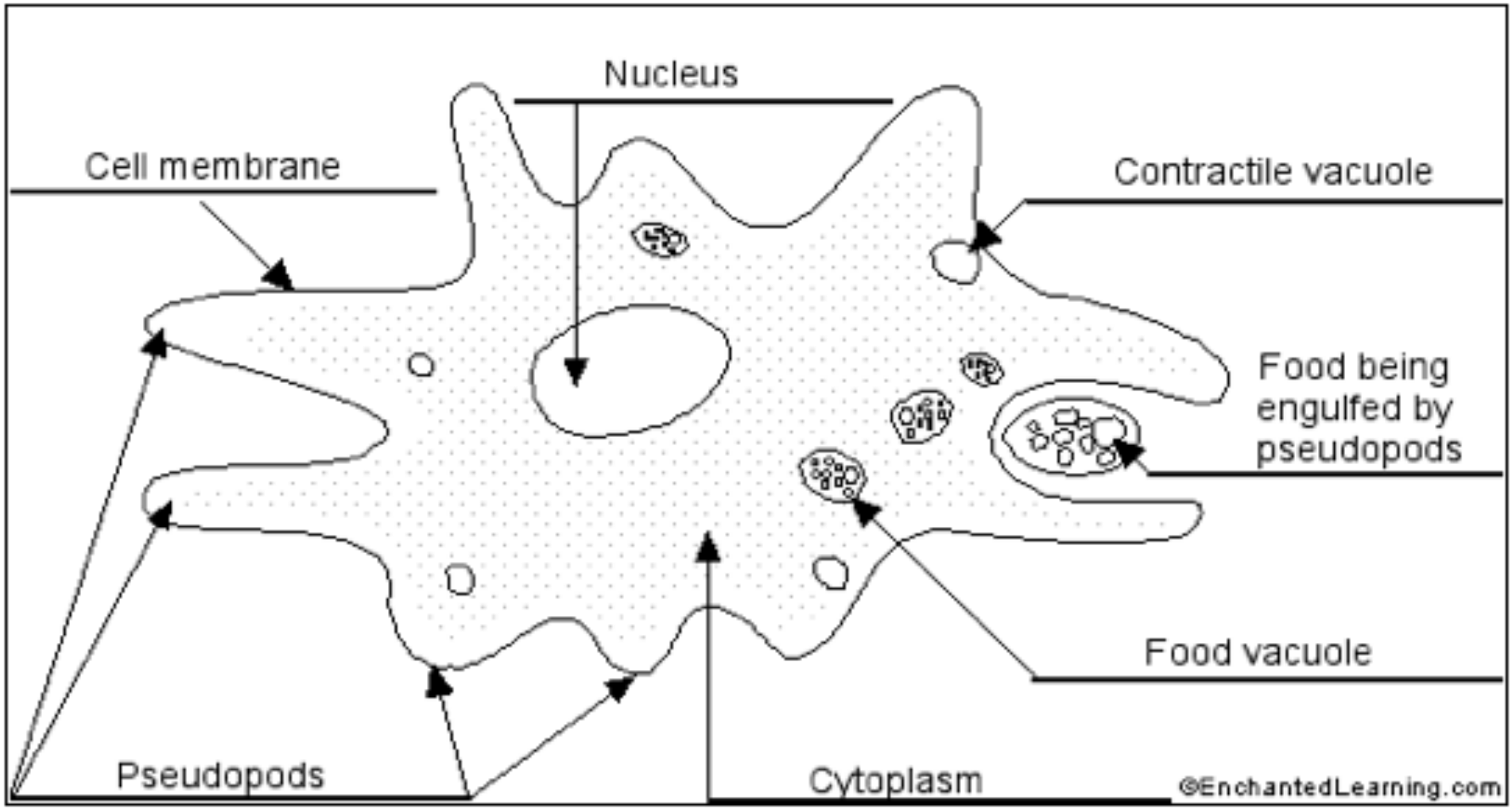
Describe how an amoeba moves and obtains nutrients



Pseudopod Movement




Food particle
Nucleus
Pseudopodia
Food vacuole
Food particle


Nucleus
Cell membrane
Contractile vacuole
Food being engulfed by pseudopods
Food vacuole
Pseudopods
Cytoplasm
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