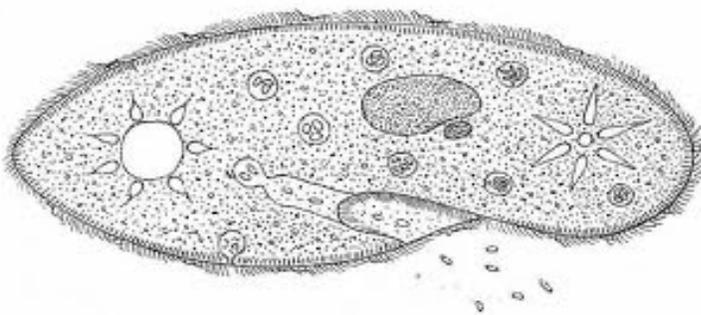


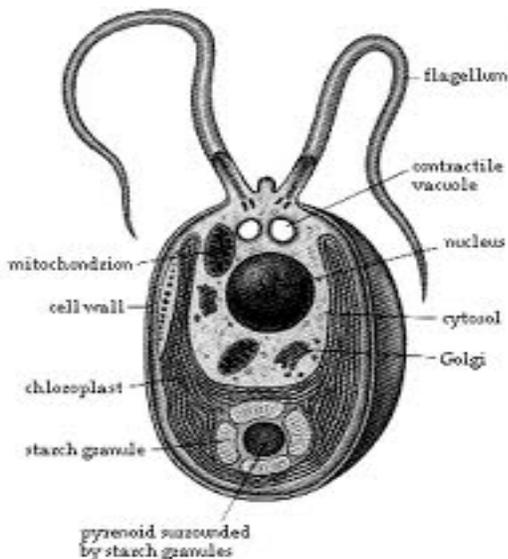
Name _____

Cell Structures of the Day-Cilia, Flagella and Pseudopods

The three structures you are going to study today are cilia (cilium is singular), flagella (flagellum is singular), and pseudopods are all important cell structures. They are used for movement and/or getting food. Cilia and flagella have a very similar structure except for their length. Cilia are very short while flagella are long. Another difference is how many are found on cells. Cells that have cilia usually have hundreds or even thousands of them. On the other hand, cells with flagella usually only have one or two of them. Both cilia and flagella are used for swimming. Some cells can move at a rate of 1mm/sec. Now, that may not seem like much except, keep in mind, that is equivalent to human swimming about 15 meters in one second!



Paramecium are covered with thousands of cilia.



The green alga, chlamydomonas, has two flagella.

In a moment you are going to watch a video about cilia and flagella. When you are through you will need to answer these questions. Read the questions and then copy the url for the video and paste it into your search screen to watch the video.

1. What do cells use the flagella for? _____
2. Protists use their cilia for movement. What else do they use their cilia for? -

3. Where in humans are there cells with cilia? _____

cilia and flagella video: <http://www.youtube.com/watch?v=QGAm6hMysTA>

Pseudopods are used by cells for movement and feeding. Watch the video and then describe how amoeba use their pseudopods to move.

Pseudopod video http://www.youtube.com/watch?v=7pR7TNzJ_pA

Cells can also use pseudopods to capture their food. Watch the next video and watch as the paramecia try to escape.

Amoeba video: <http://www.youtube.com/watch?v=pvOz4V699gk>

In humans there are cells that use pseudopods to protect us from bacteria and other foreign cells. Check out the pictures below.

