Name	Date	Per

Unit	ONLINE	Paramecium Observation Lab
9	LAB	raramecium Observation Lab

Note: this lab is completed online. Visit the following address and click on "Lab 2" http://labs.7bscience.com/protist-labs.html

Purpose:

- •To observe paramecium and how they move
- •To identify the parts of an paramecium

Part One - Background

Today you will observe another protist. In the previous lab (online or in class) you observed a type or protist called a protozoan. Recall that protozoans are animal-like protists. That is, they have similar characteristics to animals. Mainly, they are heterotrophs and they must hunt for their food.

Recall that protozoans can be classified by how they move. In the last lab you observed a type of sarcodine called an amoeba. All sarcodines move by using pseudopods, or temporary bulges in the cell membrane.

The protozoa you will observe today is called the paramecium. A paramecium is unicellular and moves by using _______. Cilia are ______ structures that

are found on the surface o	f the organism. Cilia have thr	ree uses: 1	<i></i>
2	, 3	Observe	e the video on the web
site to see the cilia move o	n the paramecium.		
Part Two - Cell Structures Identifying structures in t	he paramecium is rather sim	ple! As you rea	d the information, fill
in the blanks on your worl	ksheet and identify the struc	tures on your c	liagram.
First, observe the outside	of the organism. What appea	ars to be the cel	ll membrane is
actually a part called the _	The pel	licle is a	, outer
that	helps give the paramecium i	ts	Unlike the
amoeba, the paramecium	is not able to change shapes	(although it can	n bend and twist). Just
below the pellicle you will	find the		•
On the surface of the organ	nism are short hair-like strud	ctures are the _	·
As you already learned, th	e cilia have three functions: t	to help the para	amecium move, to help

it capture food, and to help it sense	e the environment. Also on the surface you will find an
indentation called the	The oral grove is lined with
to help the organ	nism capture At the end of the oral grove
is where the paramecium takes in	its food through The food enters
the organism and becomes trappe	d in a The vacuole
stores the food and is broken dow	n when it combines with a You may
also be able to observe a part on the	ne surface called the The anal pore
is where the	
leaves the organism.	Contractile vacuole
Inside the organism you will also note a star-shaped organelle. This is the	Pellicle Large nucleus Food vacuole
As with	Cilia
the amoeba, the contractile vacuole collects and removes excess You	Small nucleus Oral groove
can observe the contractile	Cell Membrane
vacuole work in the video. Also	Anal pore
inside you will find not one but	
TWO The lan	ge nucleus controls the
	of the cell. The large nucleus is visible and is a
slightly different color from the re	st of the organelles. The small nucleus only controls
	ways: asexually through
	In our bacteria unit we learned what binary
	me processes are true for paramecium. In binary fission,
	receives the same copy of DNA from the parent cell. In
	es genetic material with another paramecium before
splitting. After splitting, each para had.	mecia now has different DNA than the parent originally

Part Four - Labeling the Diagram

Label the diagram below with the following parts: anal pore, contractile vacuole, cytoplasm, cilia, food vacuole, oral groove, pellicle, large nucleus, small nucleus

