Name: Date:	•	arian Lab al reproduction
an organism called a planariathis lab are to:Examine your backgr	introduce the topic of reproduction. an and observe how it reproduces. round knowledge on reproduction tanding of reproduction to observations	
B. Pre-lab Questions On your own, answer the que	estions below.	
1. What do you think asexua	al reproduction is?	
2. What do you think sexual	reproduction is?	
3. How many parent cells do Sexual reproduction?4.	you <u>think</u> are needed for asexual	reproduction?
C. Class Discussion: Please write the definition give	ven to you by the teacher.	
Asexual reproduction		

Sexual reproduction

D. Group Discussion

In your groups, please answer the following questions:

٠	your groups, product another the remaining queetions.
1.	Name 5 organisms that reproduce asexually?
2.	What might be some advantages and disadvantages of reproducing asexually?
Adv	vantages:
Dis	advantages:
3.	Why might it be beneficial for plants to reproduce asexually? How might this be done? Where?
4.	What are planarians?
5.	Where do they live?
6.	What are considered their anterior and posterior ends?

E. Lab Exercise:

Materials:

- Petri dish
- Planarian
- Spring Water (The planarian should come with bottle of spring water)
- Eye dropper or pipette
- Dissecting knife
- Graph paper

Please list 3 characteristics of the planarian without touching it. (Use full sentences)

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C	 	 	
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1.	•	planarian using the microscope. Sketch the planarian below. erior and posterior ends.			
2.	 Measure your planarian by removing some of the water from the dish and waiting for the planarian to stretch out. Measure the length of the planarian in millimeters. (Always replace the water; you can use the dish lid to transfer water to and from the planarian environment.) 				
	Length:				
3.	Observe the planarian for five minutes. Does the planarian seem active or passive? How does it move? Where in the dish does it spend most of its time? Make a current in the water with a pipette. How does the planarian react? Fill out the table below.				
		Description			
Mov	/ement				
Wo	rm Location				

Reaction to Current				

4. Pour out some of the water, so that the planarian is mostly out of the water. When it stretches out, use a razor blade to cut it cleanly in half. Replace the water and put the lid on it. Observe the two pieces of the planarian under the microscope. ****Group #1 will cut the planarian in the middle. Group #2 will cut just the tip of its tail off. Group #3 will cut right below the eye spots.

Fill in the table with your results:

	Movement (observations)	Length (mm)	Sketch
Anterior End			
Posterior End			

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How long do yo regenerate?	ou think that it will take the planarian (in o	days) to completely
What do you th	ink the planarian will look like after it reg	enerates?
G. Daily Logs In your daily lo posterior ends.	g please record your observations and	length of the anterior and
H. Conclusio 1. Please draw	n below what your planarian looked like.	

2. How does this compare to your picture in the Predicting section? Was it the same? What is different?

9	u anterior and posterior ends? How does this the planarian in Lab Exercise question #2?
Evaluation: (The following guid	elines will be used to determine your grade).
Each criterion is based on a point score and 5 being the highest pos	system from 1-5, 1 being the lowest possible score.
Is the lab complete?	
Neatness	
Completed on time	
Pictures were accurately drawn and parts were labeled	
Thoughtfulness of prediction and conclusion	
Total points	