Name:	Group:	Date:	LAB 52
			OBSERVATION

THE ROLE OF BILE IN DIGESTION

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Goal

Observe a representation of the effect of bile on fats.

Observation criteria

- 1. What organ is responsible for secretion of bile? 2. What category of nutrients is affected by bile? 3. What category of nutrients largely makes up vegetable oil?
- 4. Identify:
 - a) the three secretions of the digestive system that act on fats.
 - b) the organ or glands that emit each secretion.
 - c) the organ or glands to which each secretion passes.

Secretions that act on fats	Organ or glands that emit secretion	Organ or glands to which secretions pass

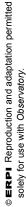
Materials

marker

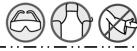
- dropper bottle of distilled water
- 2 125-mL Erlenmeyer flasks and stoppers (no. 5) vegetable oil

· 50-mL graduated cylinder

· dropper bottle of dishwashing liquid



Procedure



- 1. Label the Erlenmeyer flasks 1 and 2 with the marker.
- 2. Pour 50 mL of distilled water into each flask.
- 3. Add 12 mL of vegetable oil to each flask.
- 4. Add 12 drops of dishwashing liquid to flask 1.
- 5. Stopper each flask.
- 6. Shake each flask vigorously for about 5 seconds.
- 7. Observe in which flask water and vegetable oil mix most easily. Record the result.
- 8. Observe in which flask droplets of vegetable oil last longest. Record the result.

1. The Erlenmeyer flask in which distilled water and vegetable oil mixed most easily:

9. Clean up and put away materials.

Observations

	The Erlenmeyer flask in which droplets of vegetable oil lasted longest:			
е	flecting on your observations			
	According to your observations, what is the role of dishwashing liquid in this lab?			
•	If there had been a substance in the flasks allowing fats to be digested as in the small intestine, in which flask would digestion have been easiest? Give two reasons to explain your answer.			

Name:	Group:	Date:	
The effect of dishwashing liquid Explain the role of bile in digest		ffect of bile in digestion.	
4. Did your observations help you Explain your answer.	to better understand the effe	ect of bile on fats?	
5. How could you improve the pro	tocol for this lab?		