Name	:				Date:	Period:	
Stude	nt Sheet 2: Is there	glucose in milk?					
1.	Fill in the sugars lis	sted on the food	labels,	if any, fo	each type of r	nilk on Table 1.	
	Table 1 – Types of sugars						
	Sample	Type of sugar(s) L on Label	isted	Do you th	nink the Diastix str enzyme? Why	ip will turn a dark with no or why not?	
	Milk (regular)						
	Chocolate Milk						
	Lactose-free milk						
2.	 Proceed with the lab, as instructed on Lesson Two Student Lab Instructions. After completing the first part of the lab (mixing the milk and enzymes), make predictions which solutions will test positive for glucose after incubation. If you think the solution test positive, darken the corresponding rectangle on Table 2. Table 2 – Prediction 					, make predictions abou	
	Sample	No Enzyme		+	Sucrase	+ Lactase	
	Milk (regular)						
	Chocolate Milk						
	Lactose-free milk						
3.	Complete the lab and record your results on Table 3. Using the Diastix results as evidence record which types of sugar(s) were present in each milk. Table 3 – Results						
	Cample			ucose Concentration		Sugar(s)	
	Sample	No Enzyme	+ 50	ıcrase	+ Lactase	Present	
	Milk (regular)						
	Chocolate Milk						
	Lactose-free milk						

Lesson Two: Where is glucose in food?



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ISWE	er the following questions:
	How did your results compare to your prediction?
2.	Which solutions contained glucose before adding either of the two enzymes?
3.	What is glucose?
4.	Do you have to eat pure glucose to raise glucose levels in your blood? Why or why not?
5.	What are examples of other carbohydrates you could eat? Are they all sweet?
6.	Based on your experimental results and the sugars listed on the food labels, are there any surprises or unexpected differences (e.g., lactose is milk sugar, but is lactose listed on the food label for milk)? If so, please explain.