Name:	Group:	Date:	LAB <b>49</b>
			FXPFRIMENT

# DO ALL CARBOHYDRATES HAVE THE SAME SWEET TASTE?

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### Goal

Compare the sweet taste of various carbohydrates.

**1.** What is the independent variable in this lab?

- 2. What is the dependent variable in this lab?

# **Hypothesis**

I think that \_\_\_\_\_\_because \_\_\_\_\_

# **Materials**

- · sheet of paper
- 7 bottles with perforated caps (e.g. salt shakers) containing:
  - maltose
  - glucose
  - fructose
  - galactose

- lactose
- sucrose
- starch
- drinking glass

SWEET TASTE?

bottle of water or tap water

## **Procedure**

- 1. Draw seven circles on the paper.
- 2. Write below each circle the name of the carbohydrate to be tested.
- 3. Sprinkle a few particles of each carbohydrate in its circle.
- 4. Taste each carbohydrate in turn, rinsing your mouth after each test.
- **5.** Indicate the intensity of sweet taste of each carbohydrate on a scale of 0 (lowest) to 10 (highest).
- 6. Clean up and put away materials.

	Group:	Date:
sults		
ord your observations in the	table below. Give the table	a title.
e:		
Carbohydrate		Intensity of sweet taste (scale of 0 to 10)
lecting on the lab ted	hnique	
_	_	ntensity of sweet taste.
_	_	ntensity of sweet taste.
_	_	ntensity of sweet taste.
Place the carbohydrates test	ed in decreasing order of i	
Place the carbohydrates test	ed in decreasing order of i	
Place the carbohydrates test	ed in decreasing order of i	
Place the carbohydrates test	ed in decreasing order of i	? Explain your answer.

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5. How could you improve the protocol for this lab?

Name:	Group:	Date:
Conclusion		
1. Complete the following sente	nce:	
All carbohydrates	the same sweet taste.	
2. Was your hypothesis confirm	ed or not? Explain your answer.	
Application		
Substances other than carbohydround in soft drinks and sugarless	rates can be used to give foods a so	weet taste. Name a product