

Name: _____

Date: _____

Taste & Smell

1. What is the name of the tissue on our taste buds? _____
2. Can you name the 5 tastes on your tongue? _____

3. Which taste is associated with citrus? _____
4. How many senses can your nose smell? _____
5. How do taste and smell work together? _____

Experiment: Changing Your Taste and Smell

Let's see how taste and smell work together, and how they can easily be changed. What do you think will happen when you plug your nose or eat flavor-changing candy?

Hypothesis:

Vocab

Hypothesis: if _____,
then _____

If I do not study, then I will
fail the test.

Materials Needed:

- 2 spoons
- 2 slices of lemon or 2 tablespoons lemon juice
- 2 slices of grapefruit
- 3 drops of Tabasco
- 2-3 salt & vinegar chips
- 1 packet of ketchup
- 1 packet of yellow mustard



- 1 teaspoon of apple cider vinegar
- 1 paper plate
- 1 mberry Miracle Fruit Tablet

Trial 1:

Procedure

1. Optional: Taste each food so you remember what it tastes like for future trials
2. Close your eyes and plug your nose with your fingers.
3. Taste each food and write down what you taste below.

Food	Taste?
Lemon	
Grapefruit	
Tabasco	
Salt & Vinegar Chips	
Ketchup	
Mustard	
ACV	

Trial 2:

Procedure

1. Place an mberry tablet on your tongue and move it all around your tongue for a few minutes until it's dissolved or soft to chew.
2. Re-taste each food and write down any changes in flavor below.

Food	Taste?
Lemon	



Grapefruit	
Tabasco	
Salt & Vinegar Chips	
Ketchup	
Mustard	
ACV	

Conclusion: Did you notice that when you plugged your nose, it was harder to tell what you were eating? That's because your sense of smell helps your brain understand what your taste buds are sensing. And when you tried the mberry tablet, did you taste something sweet that was sour or bitter before? That's because the mberry changes the way your taste buds work! By doing this experiment, you learned that taste and smell are important for how we enjoy our food. How does your taste alter with no smell and Miracle Fruit? What can you conclude about taste and smell?

