

Name: _____

Date: _____

Taste & Smell

1. What is the name of the tissue on our taste buds? _____
2. What are 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: Manipulating Your Taste and Smell

In this experiment, you will see how taste and smell work together and how they can easily be manipulated. 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 mberry Miracle Fruit Tablet
- 1 paper plate

Trial 1:

Procedure

1. Optional: Taste each food so you remember what it tastes like for future trials
2. Begin by plugging your nose with your fingers
3. Taste each food while plugging your nose and record what you taste below. If you can, close your eyes as you eat to help distract your brain

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



Trial 2:

Procedure

1. Place an mberry tablet on your tongue and use it similar to a mint. Be sure to move the tablet all around your tongue for a few minutes until dissolved or soft to chew
2. Begin re-tasting each food and recording changes in flavor below

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

Conclusion: When you plugged your nose, you likely found that it was harder to identify the tastes of the foods you were eating. This is because our sense of smell plays a crucial role in how we perceive flavor. Additionally, when you tried the mberry tablet, you may have noticed that certain foods tasted different than they did before. This is because the mberry tablet alters your taste receptors and makes sour and bitter flavors taste sweet. How does your taste alter with no smell and Miracle Fruit? What can you conclude about taste and smell?

