

Equipment needed for exercises:

Smelling Vials
Droppers
Tasting spoons
Ramekins
Pint containers
Soufflé cups
Drinking cups

Water for cleansing palate

Salt display
Sugar display
Labels for products
Compost bin/ trashcan

Equipment needed for prep/ set up:

Saucepot for water

Ten 1/9th pans

Peeler

Chef knives

Pot for potatoes

pot for demi-glace

Pot for heavy cream lined half sheet trays for serving

Food mill microplane

Two bowls sauté pan for onions
Plastic wrap ice bath for sodas
Small strainer coffee filter

2 Rubber spatulas Cutting board

Exercise 1- understanding the different taste sensations (slide 19)

- a. <u>Sweet- Mix ½ cup granulated sugar</u>, 1-cup warm water. Dissolve completely. Cool to room temperature.
- b. <u>Salty- Mix ¹/4-cup</u> kosher salt, 1-cup warm water. Dissolve completely. Cool to room temperature.
- c. <u>Bitter- Mix 1 cup warm water to 3 tsps. Bitters.</u> Stir completely.
- d. <u>Bitter</u>- Mix 1 cup warm water to ½-cup baking soda. Dissolve completely. Cool to room temperature.
 - a. How do you describe baking soda?
- e. <u>Umami</u>- Mix 1 cup warm water to 1 tbsp. MSG. Dissolve completely. Cool to room temperature.
- f. Sour- Mix 1 cup warm water to ½ cup white distilled vinegar.
- g. <u>Astringent</u>- brewed strong green tea- one-tablespoon loose-leaf green tea (or two tea bags) to 1-cup water at 200°F. Cool to room temperature.
- h. <u>Astringent</u>- brewed strong black coffee. Brew one part of coffee with 2x's the amount of recommended grounds. Cool to room temperature.
- i. Menthol- Mix 1 cup warm water to 1 tbsp. mint extract
- j. <u>Pungent</u>- Mix 2 cups warm water to 1 tbsp. cayenne pepper. Stir. Let sit for 10 minutes. Strain through coffee filter. (do last)

Instructions

- 1. Mix the different solutions. Place into containers with the numbers 1-10 on them.
- 2. Have students use medicine dropper to portion onto tasting spoon- about a teaspoon worth.

^{*}You will need about 1 cup of each liquid for 12 participants



Fundamentals

- 3. Swish around tongue. Try to have them confer they taste the sensation on the right part of the mouth.
- 4. Have water for cleansing in between.
- 5. Ask which cup was which taste and what the sensation was.

Exercise 2- associating taste to smell (slide 23)

Students get a ramekin with different flavored "unusual jellybeans". Have them taste <u>without</u> the use of smell. Write down their guesses on the board.

- a. watermelon
- b. Pina colada
- c. cotton candy
- d. buttered popcorn
- e. cinnamon (do last)

<u>Instructions</u>

- 1. With your eyes closed and nose pinched, taste the jelly beans, one at a time. (Suggest only tasting ½ of the jelly bean at a time-saving the other half to taste again.) * save the red one for last.
- 2. Keep chewing, without releasing your nose
- 3. It's likely you'll only taste the basic sweet or sour
- 4. Any idea of the flavor?
- 5. Release your nose, and now taste the second piece of the jellybean.
- 6. What are your guesses?

Exercise 3- Smell instead of taste (slide 25)

Instructions

- 1. Pass around a ramekin of vanilla extract. Note the aromas.
- 2. Taste a small drop of the vanilla extract with the nose pinched.

Exercise 4- Identifying scents (slide 26)

<u>Instructions</u>

- 1. Each team has several vials of a culinary essence (herb/spice).
- 2. Smell the essence and try to determine what it is- but do not taste!
- 3. It may be helpful to think of the dish it reminds you of and then try to work down from there.
- 4. Send around both the peppermint and spearmint vials and see if they can differentiate between them.



Exercise 5- How does temperature affect taste? (slide 30)

- 1. Prepare a batch of mashed potatoes. They should be peeled, food milled, creamy, smooth, buttery, and seasoned perfectly.
 - a. Hold half of the batch at 165°F or hotter.
 - b. Hold half of the batch at around 70°F or colder.
- 2. Give students a sample of each batch of potatoes- serving the hot ones first.
- 3. Have them describe the flavor of each.

Exercise 6- Describe the taste (slide 36)

- 4 apples per team
- a. one granny smith,
- b. one red delicious,
- c. one Fuji,
- d. one *other variety

<u>Instructions</u>

- 1. Peel half of each apple.
- 2. Cut the peeled half of each apple and put into separate ramekins.
 - a. Students taste these samples first, and describe them
- 3. Cut the unpeeled (with skin) half of each apple and put into separate ramekins.
 - a. Students taste these samples first, and describe them
- 4. If enough, have students taste more than one variety together. How do the different tastes work with each other?

Exercise 7- Describe the difference (slide 38)

- 2 types of cheddar cheese- same "strength", maybe one store brand and one name brand.
- What other factors come into play?

Exercise 8- Describe the difference (slide 40)

- a. Coke vs. Pepsi
- b. Sprite vs. Sierra Mist
- What other factors come into play?
- Do you know the difference?

Exercise 9- Mouthfeel (slide 46)

• Demi-glace that is melted and cooled to slightly warmer than room temperature (fluid)

Instructions



Fundamentals

- 1. Take a spoonful of Demi-glace at slightly warmer than room temperature
- 2. Have them move around their mouth to coat.

Exercise 10- Astringency (slide 47)

- a. Untoasted chopped walnuts
- b. (refer to green tea water and coffee water containers)

Exercise 11- Bulby (slide 53)

- a. Finely sliced raw yellow Spanish onion
- b. Finely sliced raw sweet Vidalia or other sweet onion
- c. Finely sliced raw red onion
- d. Caramelized Spanish onions served at room temperature

Instructions

- 1. Have students taste a small piece of each onion, starting with the sweet onion, then Spanish, then red. Describe the flavor of each.
- 2. Have students then taste the caramelized onions. What has changed?

Exercise 12- Spiced Aromatic (slide 55)

- a. Ground cinnamon
- b. Ginger water- bring 1 cup of water to a boil, with 1 inch of fresh ginger root grated in it. Boil until "spicy". Let sit until cool. Strain through chinois.

Instructions

- 1. Have students pinch their nose and taste a SMALL amount of ground cinnamon.
- 2. Release their nose
- 3. (cleanse palate)
- 4. Taste the ginger water. What is the taste and/or sensation?

Exercise 13- Funky/ Meaty (slides 56 and 59)

- a. Small chunks of real parmesan cheese
- b. Small pieces of thinly sliced prosciutto di Parma
- c. Two tbsp. dried mushrooms reconstituted with 1-cup boiling water. Cooled to room temperature. Remove mushrooms for serving.
- d. Worcestershire sauce
- e. (refer to the MSG water container)

Instructions

- 1. Have students taste a small amount of each product.
- 2. Have them try to describe the "meatiness"

Exercise 14- Salt (slide 63)



Fundamentals

- The varieties of salts in the display unit.
 - 1. Have them describe the differences in aftertaste and texture
 - 2. Are they all the same saltiness?

Exercise 15- Sugar and Sweeteners (slide 63)

- The varieties of sugars in the display unit (check the cooler too)
 - 1. Have them describe the differences in aftertaste and texture
 - 2. Are they all the same sweetness?
 - 3. What are the other flavors you taste?
 - 4. How do the sweeteners react in your mouth?

Exercise 16- Chocolate (slide 64)

- Unsweetened/ bittersweet chocolate
- Semi-sweet chocolate (more than one %)
- Sweet chocolate
- Milk chocolate
- White chocolate
 - 1. Taste small pieces of chocolate, starting with the unsweetened first. Have them describe each of the taste sensations.
 - 2. What is the difference in tastes among the chocolates?

Exercise 17- Mystery Basket

• Use today's knowledge to prepare yourself lunch with the provided ingredients as a team!