Taste and Smell

Part 1 – write on diagram
Read page 120 of your text, then...Complete the diagram’s empty boxes with the correct anatomy.

Part 2 – use next page
*use the reading links on my website
On the next page, use the following terms to describe what flavor is and why the jellybean “changed flavors” when you unplugged your nose. Use all terms in term box and underline them in your explanation. (pseudo “Define and Apply”)

Helpful Sentence Starters to Keep You On Track (Optional)

- Flavor is actually a combination of ______________ and ______________.
- When food enters the mouth......
- Food also produces odorants........ (explain smell aspect)
- The reason we don’t recognize the flavor of the jelly bean when we plug our nose is because......
The jellybean “changed” flavors when I unplugged my nose because.... (see previous page for instructions)

***To get you going...

Flavor is actually a combination of.....

Notes from class:
**Somesthetic Senses** *(This top section not required for homework)*

- *Soma* = body
- *Esthetic* = feeling

The 3 somesthetic sense systems are:

1. The **skin** senses, which has to do with: _____________, pressure, ________________, and ________.

2. The **kinesthetic** sense has to do with:

3. The **vestibular** sense has to do with:

**Skin senses**

Some nerves only respond to changes in pressure, but *free nerve endings* respond to changes in ____________, ____________, and ____________.

**Pain**

*Internal organs*: pain detected internally is known as _________________________.

*Skin, muscles, joints, tendons*: Pain here is known as _________________________.

Describe somatic pain in more depth here:

**Pain Disorders**

Pain is an important part of our body systems because ___________________________________________

________________________________________

________________________________________

CIPA notes:

phantom limb pain notes:

**Gate-Control Theory of Pain**

*watch the video on page 123 to help (it is much easier to understand with a visual)*

Describe how this theory explains how/when we feel pain.

- Make sure to use the following terms at least once in your explanation:
  - spinal cord
  - gate
  - brain,
  - substance P
  - high priority pain
  - low priority pain

**Kinesthetic Sense**

*use pages 123-124 of textbook to fill out the following for kinesthetic and vestibular senses (next page):*

- *Our body’s sense of movement and position in space* (like our limbs positions in relation to one another).

An example of something we do that requires the kinesthetic sense is: __________________________
Vestibular Sense

- *Our body's sense of position in relation to the ground; sense of position of the head movements*

The structures for this sense are located:_______________________________

- *Otolith organs* are tiny sacs just above the cochlea. They tell the body:_______________________________

____________________________________________________________________________________

- *Semicircular canals* are three tubes filled with liquid in the inner ear. They tell the body:_____________

___________________________________________________________________________________________

What is the *Sensory Conflict Theory*, and how does it relate to motion sickness?:

Notes from class:
**Hearing**

*label the parts of the ear (pg 114)*

*READ pages 113-115*

**LIST** the organs sound vibrations travel through in order from outside of the ear, to inside the ear:

1. **Pitch Theories**
   - ***Pitch*** = how high/low sound is

   **Herman von Helmholtz**’s theory of pitch is called: ____________________________
   
   It says we hear different pitches because:

   **Ernest Rutherford**’s theory of pitch is called: ____________________________
   
   It says we hear different pitches because:

2. **Deafness**
   - **Conduction Hearing Impairment** has to do with problems of the:

   **Nerve Hearing Impairment** has to do with problems of the:

**Notes from class:**
Vision

1. The __________________________’s function is _______________________________________________________________________.
2. The __________________________’s function is _______________________________________________________________________.
3. The __________________________’s function is _______________________________________________________________________.
4. The __________________________’s function is _______________________________________________________________________.
5. The __________________________’s function is _______________________________________________________________________.
6. The __________________________’s function is _______________________________________________________________________.
7. The __________________________’s function is _______________________________________________________________________.
8. The __________________________’s function is _______________________________________________________________________.
9. The ______Fovea__________’s key feature is _______________________________________________________________________.
10. The __________________________’s key feature is _______________________________________________________________________.

Term Bank:
- Retina
- Cornea
- Lens
- Pupil
- Blind Spot
- Optic Nerve
- Sclera (white of the eye)
- Iris
- Aqueous/Vitreous Humor
- Fovea
Notes from class: