

Progress Check For Day 2. Sensation-Perception

List the 7 philosophies discussed in class

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|---------------|------------------|
| 1. Mentalism | |
| 2. Democritus | materialism |
| 3. Aristotle | rationalism |
| 4. Locke | empiricism |
| 5. Descartes | dualism |
| 6. Hobbes | physical monism |
| 7. Berkeley | spiritual monism |

List the 5 physiologists discussed in class

- | | |
|--------------|-----------------|
| 1. Galvani | electric nerves |
| 2. Muller | nerves all same |
| 3. Gall | phrenology |
| 4. Flourens | ablation |
| 5. Helmholtz | speed of neuron |

List the 5 Paths of Truth:

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|---------------|------------------------|
| 1. religion | revelation |
| 2. wisdom | insight |
| 3. philosophy | logic |
| 4. science | systematic observation |
| 5. Tangen | dumb luck |

List 3 Types of Electricity

1. lightning
2. artificial (static electricity)
3. animal

List Wundt's Tridimensional Theory of Emotion (subjective feelings):

1. excitement-calm
2. pleasure-displeasure
3. tension-relaxation

List 2Types of Perceptual Processing

Bottom-up processing
Top-down processing

List 3 Magnitude Mechanisms

1. Firing rate
2. Volley theory
3. Other nerves

List 4 Principles of Perceptual Efficiency

1. Separate systems
2. Separate subsystems for specific functions
3. Ignore steady state information
4. Pre-code for critical features

List 2 Theories of Perception

1. Structuralism
2. Gestalt

List 3 Gestalt Principles

1. Similarity
2. Connectedness
3. Common Region
4. Figure & Ground

List 3 Components of the Human Eye

1. Crystalline lens
2. Retina
3. Fovea

List 4 Vision Problems

1. Nystagmous
2. Visional Dead Spot
3. Tunnel Vision
4. Retinitis pigmentosa
5. Color Blindness

List 2 Types of Visual Receptors & What They Do Best

- | | |
|----------|-----------------------|
| 1. Rods | target detection |
| 2. Cones | target identification |

List 9 Components of the Auditory System

1. pinna
2. external auditory canal
3. tympanic membrane
4. Eustachian tube
5. ossicular chain
6. round window
7. oval window
8. cochlea
9. stereocilia

List 3 Types of Tactile Sensations

1. Pressure
2. Temperature
3. Pain

List 4 Findings About Skin Mapping

1. Sensations are not continuous across skin
2. Number of pain spots > number of pressure > number for temperature
3. Localization shifts over time
4. Specific sensations do not always directly correspond with the type of receptor found at that location in the skin

List Our Two Chemical Senses

1. Gustation (Taste)
2. Olfaction (Smell)

List 3 Difficulties Researching Chemical Senses

1. Hard to control amount of odorant reaching the smell receptors
2. Very rapid adaptation
3. Taste buds die off every 4 - 11 days

List 7 Components of the Olfactory System

1. nostril
2. nasal mucosa
3. olfactory epithelium
4. Bowman's glands
5. pigmented epithelial cell
6. receptor cells
7. olfactory cilia

Reminder

The flavor of an apple, onion, and potato have same taste, they differ in flavor