**AP Psychology**

Unit 4 Test review: Sensation and Perception

*Modules 16-21 (pages 150-212)*

The key terms, concepts, and contributors from your Unit 4 vocabulary will comprise some of the knowledge you will need to recall for the test; make sure to study those. *\*\*Key terms/people\*\** In addition, the topics below may be the source of questions on your version of the Unit 4 Test:

Modules 16 & 17-Basic principles of sensation and perception & Influences on Perception *Be able to explain/apply these terms/concepts:*

Perception\*\*

Bottom-up processing\*\*

Top-down processing\*\*

Change blindness\*\*

Inattentional blindness\*\*

Absolute threshold\*\*

Signal-detection theory\*\*

Sensory adaptation\*\*

Difference threshold\*\*

You will need to understand what subliminal messages are (a specific definition), AND what research into subliminal messaging has told us. Be familiar with the placebo effect.

Be familiar with the term Just Noticeable Difference, and how it relates to our perception of sensory stimuli.

Make sure you understand the term perceptual set, and be able to apply the term to a given scenario.

Make sure you understand what context effects are, and be able to apply the term to a given scenario.

Make sure you are familiar with the concepts of ESP and parapsychology, including the difference between telepathy, clairvoyance, & precognition; as well as what conclusions can be drawn from the scientific research in this area.

Modules 18 & 19-Vision and Visual Organization & Interpretation *Be able to explain/apply these terms/concepts:*

Accommodation\*\*

Rods\*\*

Cones\*\*

Blind spot\*\*

Optic nerve\*\*

Feature detectors\*\*

Parallel processing\*\*

Gestalt\*\*

Figure-ground\*\*

Phi phenomenon\*\*

Color constancy\*\*

Perceptual adaptation\*\*

Visual cliff\*\*

Binocular cues\*\*

Monocular cues\*\*

Make sure you are familiar with the physical process of how light enters our eye (what structures are involved, what they do, the order in which the process occurs)

Make sure you are familiar with the process by which light energy is converted to neural energy, AND how that neural energy is carried to the brain to be processed.

Make sure you are aware of what the connection between cones and bipolar cells are.

Make sure you are able to identify, & explain the importance of, supercell clusters.

Make sure you can explain & apply the term “blindsight.”

Make sure you are familiar with (and able to identify/apply) the concepts of brightness (lightness) constancy.

Make sure you are familiar with the following individuals’ belief with regards to knowledge and perception:

Immanuel Kant

John Locke

Make sure you are familiar with Wiesel’s experiments with infant kittens & monkeys.

Modules 20 & 21-Hearing & The other senses *Be able to explain/apply these terms/concepts:*

Place theory\*\*

Frequency theory\*\*

Gate-control theory\*\*

Harry McGurk\*\*

Middle ear\*\*

Outer ear\*\*

Cochlea\*\*

Sensorineural hearing loss\*\*

Embodied cognition

Sensory interaction\*\*

Make sure you are familiar with the physical construction of the ear (outer, middle, and inner)

Make sure you are familiar with the physical process by which sound waves enter our ear and are converted to neural energy, AND how that neural energy is carried to the brain to be processed.

Make sure you are familiar with, and able to identify/apply, the volley principle.

Make sure you are aware of the 4 distinct skin senses that make up our sense of touch.

Make sure you are familiar with the role nociceptors play in our ability to sense pain.

Make sure you are aware with the 5 distinct taste sensations, and the survival functions of each.

Make sure you are familiar with the process by which scents/smells enter our nose and are converted to neural energy, AND how that neural energy is carried to the brain to be processed.

Make sure you are familiar with how kinesthesia, vestibular sense, and semicircular canals help us to sense our body’s position & movement.

Make sure you are able to apply the biopsychosocial approach to any of our senses, perceptions, and scenarios presented to you.