**AP Psychology Unit 7: Sensation & Perception**

**Unit 7 Essential Questions:**

* Can we always trust our perceptions?
* What factors influence what we sense and perceive?

**IV. Sensation and Perception (6–8%)**

|  |
| --- |
| **College Board Description** |
| Everything that organisms know about the world is first encountered when stimuli in the environment activate sensory organs, initiating awareness of the external world. Perception involves the interpretation of the sensory inputs as a cognitive process.  AP students in psychology should be able to do the following:  • Discuss basic principles of sensory transduction, including absolute threshold, difference threshold, signal detection, and sensory adaptation.  • Describe sensory processes (e.g., hearing, vision, touch, taste, smell, vestibular, kinesthesis, pain), including the specific nature of energy transduction, relevant anatomical structures, and specialized pathways in the brain for each of the senses.  • Explain common sensory disorders (e.g., visual and hearing impairments).  • Describe general principles of organizing and integrating sensation to promote stable awareness of the external world (e.g., Gestalt principles, depth perception).  • Discuss how experience and culture can influence perceptual processes (e.g., perceptual set, context effects).  • Explain the role of top-down processing in producing vulnerability to illusion.  • Discuss the role of attention in behavior.  • Challenge common beliefs in parapsychological phenomena.  • Identify the major historical figures in sensation and perception (e.g., Gustav Fechner, David Hubel, Ernst Weber, Torsten Wiesel). |

**Unit Overview**

|  |  |  |  |
| --- | --- | --- | --- |
| Monday | Tuesday | Thursday (BLOCK) | Friday |
| 2/23  **Break Homework Due!**  SWBAT describe visual processing, selective attention, & change blindness  **Homework**  Myers: Selective Attention & Thresholds p116-124  *Study for level-up quiz* | 2/24  SWBAT explain how thresholds impact our sensations  **Homework**  Myers: Other Senses & Gestalt Principles p141-152  *Study for level-up quiz* | 2/26  SWBAT identify the parts & functions of sense organs  SWBAT describe how gestalt principles impact our perception  **Homework**  Myers: Depth Perception & Perceptual Constancy  p153-160  *Study for level-up quiz* | 2/27  SWBAT explain how people perceive depth & motion  **Homework**  Myers: Perceptual Set & ESP  P161-169  *Study for level-up quiz* |
| 3/2  SWBAT explain how perceptual constancy, adaptation, & set impact what we perceive  **Homework**  Myers: Chapter Review  p172-173  *Study for level-up quiz* | 3/3  SWBAT review for the Unit 7 Exam  **Homework**  Myers Online Quiz 4-1 & 4-2  *Study for level-up quiz* | 3/5  SWBAT Take the Unit 7 Exam  SWBAT review for the quarter exam  **Homework**  Study for the Quarter Exam (15% of Grade!)  *Study for level-up quiz* | 3/6  SWBAT review for the quarter exam  **Homework**  Study for the Quarter Exam (15% of Grade!)  *Study for level-up quiz* |
| 3/9  SWBAT review for the quarter exam  **Homework**  Study for the Quarter Exam (15% of Grade!)  *Study for level-up quiz*  **Homework**  Study for the Quarter Exam (15% of Grade!)  *Study for level-up quiz* | 3/10  SWBAT review for the quarter exam  **Homework**  Study for the Quarter Exam (15% of Grade!)  *Study for level-up quiz*  **Homework**  Study for the Quarter Exam (15% of Grade!)  *Study for level-up quiz* | 3/11-3/13  AP Psyc Benchmark & Quarter Exam  **Material Covered on the Benchmark will be graded and entered as your quarter exam grade (15% of Grade!)**  **These Topics Include:**  History & Approaches  Research Methods  Biological Bases of Behavior  Sensation & Perception  States of Consciousness  Learning  Cognition  Motivation & Emotion  Development  Personality  Intelligence & Testing  Social Psychology  *(Questions on the benchmark about Abnormal Psychology & Treatment will not be included in the quarter exam grade because this material has not yet been covered.)* | |

**Unit Vocabulary**

|  |  |  |  |
| --- | --- | --- | --- |
| **Priority** |  | **Priority** |  |
| Level A  Quiz 1 | Bottom-Up Processing  Top-Down Processing  Selective Attention  Inattentional Blindness  Change Blindness  Absolute Threshold  Signal Detection Theory  Difference Threshold  Weber’s Law  Just Noticeable Difference | Level B  Quiz 1 | Sensation  Perception  Subliminal  Priming  Wavelength  Hue  Intensity (vision)  Feature Detectors  Parallel Processing  Photoreceptors |
| Level A  Quiz 2 | Retina  Rods  Cones  Pupil  Iris  Lens  Optic Nerve  Blind Spot  Fovea  Cornea | Level B  Quiz 2 | Audition  Frequency  Pitch  Place Theory  Frequency Theory  Conduction Hearing Loss  Sensorineural Hearing Loss  Amplitude  Timbre  Cochlear Implant |
| Level A  Quiz 3 | Sensory Adaptation  Transduction  Young-Helmholts Trichromatic Theory  Opponent Process Theory  Bipolar Cells  Ganglion Cells  Color Blindness  Gate-Control Theory  Olfaction  Gustation | Level B  Quiz 3 | Near Sighted  Far Sighted  Optic Chiasma  Kinesthesis  Vestibular Sense  Papillae  Phi Phenomenon  Extrasensory Perception (ESP)  Sensory Interaction  Parapsychology |
| Level A  Quiz 4 | Outer Ear  Middle Ear  Inner Ear  Cochlea  Eardrum/Tympanic Membrane  Hammer, Anvil, & Stirrup  Oval Window  Basilar Membrane  Semicircular Canals  Cocktail-Party Phenomenon | Level C  Quiz 1 | Grouping Principles (Gestalt)   * Similarity * Proximity * Closure * Continuity   Monocular Cues   * Linear Perspective * Relative Size * Motion Parallax * Interposition |
| Level A  Quiz 5 | Gestalt  Depth Perception  Visual Cliff  Binocular Cues  Monocular Cues  Perceptual Constancy  Perceptual Adaptation  Perceptual Set  Figure-Ground  Habituation |  |  |

**Quiz Tracking Sheet**

***Unit 7 Level-Up Grades:***

*60% = Pass 4 As*

*70% = Pass 5 As & 1B*

*80% = Pass 5 As & 2 Bs*

*90% = Pass 5 As & 3 Bs*

*100% = Pass 5 As, 3 Bs, & 1 C*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Quiz Title** | **Score 1** | **Score 2** | **Score 3** | **Sticker**  **Passed! ☺** |
| Sensation - Level A - Quiz 1 |  |  |  |  |
| Sensation – Level A – Quiz 2 |  |  |  |  |
| Sensation – Level A – Quiz 3 |  |  |  |  |
| Sensation – Level A – Quiz 4 |  |  |  |  |
| Sensation – Level A – Quiz 5 |  |  |  |  |
| Sensation – Level B – Quiz 1 |  |  |  |  |
| Sensation – Level B – Quiz 2 |  |  |  |  |
| Sensation – Level B – Quiz 3 |  |  |  |  |
| Sensation – Level C – Quiz 1 |  |  |  |  |