**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%)**

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| **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**

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| 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* | 2/24SWBAT explain how thresholds impact our sensations**Homework**Myers: Other Senses & Gestalt Principles p141-152*Study for level-up quiz* | 2/26SWBAT identify the parts & functions of sense organsSWBAT describe how gestalt principles impact our perception**Homework**Myers: Depth Perception & Perceptual Constancy p153-160 *Study for level-up quiz* | 2/27SWBAT explain how people perceive depth & motion**Homework**Myers: Perceptual Set & ESPP161-169*Study for level-up quiz* |
| 3/2SWBAT explain how perceptual constancy, adaptation, & set impact what we perceive**Homework**Myers: Chapter Reviewp172-173 *Study for level-up quiz* | 3/3SWBAT review for the Unit 7 Exam**Homework**Myers Online Quiz 4-1 & 4-2*Study for level-up quiz*  | 3/5SWBAT Take the Unit 7 ExamSWBAT 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*  |
| 3/9SWBAT 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*  | 3/10SWBAT 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*  | 3/11-3/13AP 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 & ApproachesResearch MethodsBiological Bases of BehaviorSensation & PerceptionStates of ConsciousnessLearningCognitionMotivation & EmotionDevelopmentPersonalityIntelligence & TestingSocial 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**

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| **Priority** |  | **Priority** |  |
| Level AQuiz 1 | Bottom-Up ProcessingTop-Down ProcessingSelective AttentionInattentional BlindnessChange BlindnessAbsolute ThresholdSignal Detection TheoryDifference ThresholdWeber’s LawJust Noticeable Difference | Level BQuiz 1 | SensationPerceptionSubliminalPrimingWavelengthHueIntensity (vision)Feature DetectorsParallel ProcessingPhotoreceptors |
| Level AQuiz 2 | RetinaRodsConesPupilIrisLensOptic NerveBlind SpotFoveaCornea | Level BQuiz 2 | AuditionFrequencyPitchPlace TheoryFrequency TheoryConduction Hearing LossSensorineural Hearing LossAmplitudeTimbreCochlear Implant |
| Level AQuiz 3 | Sensory AdaptationTransductionYoung-Helmholts Trichromatic TheoryOpponent Process TheoryBipolar CellsGanglion CellsColor BlindnessGate-Control TheoryOlfactionGustation | Level BQuiz 3 | Near SightedFar SightedOptic ChiasmaKinesthesisVestibular SensePapillaePhi PhenomenonExtrasensory Perception (ESP)Sensory InteractionParapsychology |
| Level AQuiz 4 | Outer EarMiddle EarInner EarCochleaEardrum/Tympanic MembraneHammer, Anvil, & StirrupOval WindowBasilar MembraneSemicircular CanalsCocktail-Party Phenomenon | Level CQuiz 1 | Grouping Principles (Gestalt)* Similarity
* Proximity
* Closure
* Continuity

Monocular Cues* Linear Perspective
* Relative Size
* Motion Parallax
* Interposition
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| Level AQuiz 5 | GestaltDepth PerceptionVisual CliffBinocular CuesMonocular CuesPerceptual ConstancyPerceptual AdaptationPerceptual SetFigure-GroundHabituation |  |  |

**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*

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| **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 |  |  |  |  |