

## **Open Your Class With This Tomorrow** ***The One World School House: Education Reimagined***

**Directions:** The Khan Academy does not have much in the way of lessons related to high school psychology, but there many psychology related lessons in the MCAT review sections of the website. The revised MCAT now includes many sections on psychology, which can also be helpful to the introductory psychology student. The links below will take you to the series of instructional videos on psychology which are followed by reading passages with questions. The short passages with questions would make a great opening to a class after students have read about these concepts in their textbooks or a great review as students prepare for exams. Students who need further clarification can watch the videos outside of class. Additionally many concepts related to biopsychology can be found in the lessons for human biology.

<https://www.khanacademy.org/science/mcat/processing-the-environment>

### **Sensory Perception**

Perceptual organization  
Sensory adaptation  
Weber's law and thresholds  
Somatosensation  
Signal detection theory - part 1  
Signal detection theory - part 2  
Bottom-up vs. top-down processing  
Gestalt principles  
Sensory perception - Passage 1  
Sensory perception - Passage 2

### **Sight (Vision)**

The structure of the eye  
Visual sensory information  
The photo transduction cascade  
Photoreceptors (rods vs. cones)  
Photoreceptor distribution in the fovea  
Visual field processing  
Feature detection and parallel processing  
Sight (vision) - Passage 1  
Sight (vision) - Passage 2

### **Sound (Audition)**

Auditory structure - part 1  
Auditory structure - part 2  
Auditory processing  
Cochlear implants  
Sound (audition) - Passage 1  
Sound (audition) - Passage 2

### **Somatosensation**

Somatosensation  
Sensory adaptation and amplification  
Somatosensory homunculus  
Proprioception and kinesthesia  
Pain and temperature  
Somatosensation - Passage 1  
Somatosensation - Passage 2  
Books For Psychology Class

<http://booksforpsychologyclass.weebly.com/>

## **Taste (Gustation) and Smell (Olfaction)**

Olfaction - structure and function

Pheromones

Gustation - structure and function

Taste (gustation) and smell (olfaction) - Passage 1

Taste (gustation) and smell (olfaction) - Passage 2

## **Cognition**

Piaget's stages of cognitive development

Problem solving

Decision making

Semantic networks and spreading activation

Intelligence

Aging and cognitive abilities

Cognition - Passage 1

Cognition - Passage 2

## **Attention and Language**

Divided attention, selective attention, inattention blindness, & change blindness

Theories of selective attention

Theories of language and cognition

Theories of language development: Nativist, learning, interactionist

Language and the brain: Aphasia and split-brain patients

Attention and language - Passage 1

Attention and language - Passage 2

## **Sleep and Consciousness**

States of consciousness

Sleep stages and circadian rhythms

Dreaming

Sleep disorders

Hypnosis and meditation

Sleep and consciousness – Passage 1

Sleep and consciousness - Passage 2

## **Memory**

Information processing model: Sensory, working, and long term memory

Encoding strategies

Retrieval cues

Retrieval: Free recall, cued recall, and recognition

Memory reconstruction, source monitoring, and emotional memories

Long term potentiation and synaptic plasticity

Decay and interference

Aging and cognitive abilities

Alzheimer's disease and Korsakoff's syndrome

Memory - Passage 1

Memory - Passage 2

## **Emotion**

Emotions: limbic system

Emotions: cerebral hemispheres and prefrontal cortex

Autonomic nervous system (ANS) and physiologic markers of emotion

Three components of emotion and the universal emotions

Theories of Emotion

Emotion - Passage 1

Emotion - Passage 2

<https://www.khanacademy.org/science/mcat/behavior>

## **Behavior and Genetics**

Temperament, heredity, and genes

Twin and adoption studies

Heritability

Gene environment interaction

Regulatory genes

Adaptive value of behavioral traits

Behavior and genetics - Passage 1

Behavior and genetics - Passage 2

## **Biological Basis of Behavior: Endocrine system**

Endocrine system and influence on behavior - Part 1

Endocrine system and influence on behavior - Part 2

Biological basis of behavior: Endocrine system - Passage 1

Biological basis of behavior: Endocrine system - Passage 2

## **Theories of Personality**

Psychoanalytic theory

Maslow's hierarchy of needs

Humanistic theory

Biological theory

Behavioral theory

Trait theory

Observational learning: Bobo doll experiment and social cognitive theory

Theories of personality - Passage 1

Theories of personality - Passage 2

## **Motivation and Attitudes**

Physiological concept of positive and negative feedback

Instincts, Arousal, Needs, Drives: Drive-Reduction and Cognitive Theories

Maslow's hierarchy of needs

Incentive theory

Biological and Sociocultural Factors Food, Sex, and Drugs

Components of attitudes

Attitude influences behavior

Behavior influences attitude

Cognitive dissonance

Situational approach

Motivations and attitudes - Passage 1

Motivations and attitudes - Passage 2

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## **Social Psychology**

Conformity and groupthink  
Bystander effect  
Social facilitation and social loafing  
Social psychology - Passage 1  
Social psychology - Passage 2

## **Normative and Non-normative Behavior**

What is normal? Exploring folkways, mores, and taboos  
Perspectives on deviance: Differential association, labeling theory, and strain theory  
Aspects of Collective Behavior: Fads, Mass Hysteria, and Riots  
Normative and non-normative behavior - Passage 1  
Normative and non-normative behavior - Passage 2

## **Learning**

Classical conditioning: Neutral, conditioned, and unconditioned stimuli and responses  
Classical conditioning: Extinction, spontaneous recovery, generalization, discrimination  
Operant conditioning: Positive-and-negative reinforcement and punishment  
Operant conditioning: Shaping  
Operant conditioning: Schedules of reinforcement  
Operant conditioning: Innate vs. learned behaviors  
Operant conditioning: Escape and avoidance learning  
Observational learning: Bobo doll experiment and social cognitive theory  
Learning - Passage 1  
Learning - Passage 2

<https://www.khanacademy.org/science/mcat/individuals-and-society>

## **Self-Identity**

Self concept, self identity, and social identity  
Self esteem, self efficacy, and locus of control  
Overview of theories of development  
Freud's psychosexual development  
Erikson's psychosocial development  
Vygotsky sociocultural development  
Kohlberg moral development  
Social influences  
Self-identity - Passage 1  
Self-identity - Passage 2

<https://www.khanacademy.org/science/mcat/society-and-culture>

## **Social Structures**

Institutions  
Conflict theory  
Functionalism  
Social constructionism  
Symbolic interactionism  
Social theories overview  
Social structures - Passage 1  
Social structures - Passage 2

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<https://www.khanacademy.org/science/biology/human-biology/neuron-nervous-system/v/anatomy-of-a-neuron>

### **The Neuron and Nervous System**

Anatomy of a neuron

Sodium potassium pump

Correction to sodium and potassium pump video

Action potential

Saltatory conduction in neurons

Neuronal synapses

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