

# PSYCHOLOGY



## INTRODUCTION

### DEFINITION OF PSYCHOLOGY

Scientific study of thought and behavior. Psychologists study how the brain creates thoughts, feelings, and actions, and how internal and external environments affect them.

### RESEARCH STUDIES

1. **Studies find hypotheses:** testable explanations of observed events.
2. **Students must have reliability and validity**
  - a. **Reliability:** study produces consistent results when replicated
  - b. **Validity:** study accurately measures what it claims to measure. There are 3 types of validity:
    - i. **Construct:** study measures the effect it is trying to measure
    - ii. **Internal:** study shows that only the experimental factor caused an effect
    - iii. **External:** results of study apply to other situations

### TYPES OF STUDIES

1. **Correlational study:** expresses the relationship between 2 variables, does not imply causation
2. **Experiment:** the manipulation of an independent variable to understand its effect on a dependent variable. Identifies cause-and-effect relationships.
  - i. **Sampling:** the process of choosing subjects for study
    - a. **Sample:** group of subjects selected for study; a subset of a population
    - b. **Population:** group of people about whom the researcher wants to make conclusions. Sample should be representative of the population.
  - ii. **Random assignment:** random placement of subjects into experimental or control groups
  - iii. **Control group:** group not subject to experimental manipulation
3. **Variables:** things that can vary among subjects
  - i. **Independent variable:** manipulated by researcher, produces a change in dependent variable
  - ii. **Dependent variable:** measured by the researcher
  - iii. **Controlling variable:** any possible variable—other than the independent variable—that may cause the observed effect

### STATISTICS

Describes data and quantifies relationships between variables

1. **Frequency distribution:** an arrangement of data points based on how frequently they occur
2. **Normal distribution:** frequency distribution with the shape of a normal curve (a symmetrical bell-shaped curve)
3. **Central tendency:** measures of the center of the frequency distribution. There are 3 types:
  - i. **Mean:** the arithmetic average of data points
  - ii. **Median:** the middle data point
  - iii. **Mode:** the most frequent data point

### NORMAL DISTRIBUTION AND STANDARD DEVIATION



- a. **Variability:** how the data are dispersed or spread around the mean
- b. **Range:** the distance between the highest and lowest data-point
- c. **Standard deviation (SD):** average distance of a data point from the mean

$$SD = \sqrt{\frac{\sum (x - \bar{x})^2}{n}}$$

- Small SD means the scores are relatively close to the mean score
- Large SD means the scores have a wider range around the mean

1. **Statistical significance:** means that the differences observed are too big to have occurred by chance
  - i. **Two types of errors in significance testing:**
    - a. **Type I error:** false positive; perceive an effect that is not there
    - b. **Type II error:** false negative; do not perceive an effect that is there

## NEUROPSYCHOLOGY

### THE NERVOUS SYSTEM

Structure and biological information

1. **Central Nervous System (CNS):** brain and spinal cord. Brain is split into right and left hemispheres. Brain exhibits **contralateral control** (each hemisphere controls opposite side of body), and **specialization** (left and right hemispheres have different functions). The three major parts of the brain are the **hindbrain**, **midbrain**, and **forebrain**.

- i. **Hindbrain:** top part of the spinal cord, includes medulla, pons, and cerebellum.
  - a. **Cerebellum:** basic biological functions like breathing, swallowing, and balance
  - b. **Pons:** basic expressions, sleep, and dreaming
  - c. **Cerebellum:** fine motor movements
2. **Midbrain:** coordinates basic movements with sensory information

### THE INTERIOR OF THE BRAIN



- i. **Forebrain:** large in humans, includes the cerebral cortex and subcortical structures, such as the thalamus, hypothalamus, and basal ganglia
2. **Basal ganglia:** regulates muscle contractions and movement
3. **Thalamus:** incorporates and relays sensory information to the cortex
4. **Hypothalamus:** controls motivated behavior like eating, drinking, and sex
5. **Hippocampus:** helps process and receive long-term and spatial memory
6. **Amygdala:** emotion, evaluation of stimuli
7. **Cerebral cortex:** receives sensory information and transmits motor information. **Corpus callosum:** nerve tract beneath cortex that connects the two hemispheres and allows them to communicate. Cerebral cortex consists of four lobes:
  - Occipital lobe:** processes vision
  - Temporal lobe:** processes sound
  - Parietal lobe:** integrates sensory systems and is involved in attention
  - Frontal lobe:** speech, learning, thinking, decision-making, and abstract thought

### THE SURFACE OF THE BRAIN and the cerebral lobes



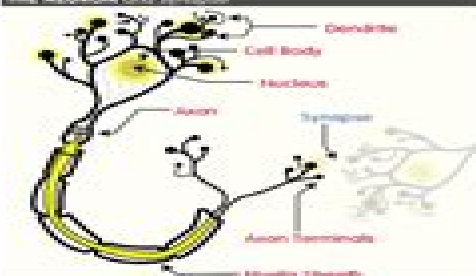
1. **Peripheral Nervous System:** includes all nerves that spread through the body from the brain and spinal cord. Has 3 divisions:
  - i. **Somatic division:** controls voluntary muscle movements and sense organs
  2. **Autonomic division:** controls involuntary actions and the internal organs

### NEURONS

- i. **Neurons of the nervous system:** are the basic unit of the nervous system. Has 3 main parts:
  - a. **Soma:** cell body, stores energy for cell
  - b. **Dendrites:** receives messages from other neurons and conducts the messages toward the soma
  - c. **Axon:** sends messages to other neurons

- i. **Terminal branches (axon terminals):** end of axon that contains neurotransmitters
2. **Myelin sheath:** insulates axons so that signals can travel quickly
3. **Glial cell:** creates myelin, supports and guides neurons, and helps repair neurons

### THE NEURON and Synapse



### INFORMATION EXCHANGE

Neurons communicate by receiving and transmitting nerve impulses

1. The axon terminals of the presynaptic neuron are stimulated. The terminals contain **synaptic vesicles**, which empty neurotransmitters into the **synapse** between the neurons. Neurotransmitters activate the postsynaptic neuron, changing its voltage. Once the **excitation threshold** is reached, the **action potential** begins, and a nerve fires.
2. **Synapse:** small gap between neurons where information is exchanged
3. **Synaptic vesicles:** places where neurotransmitters are stored until release into the synapse
4. **Neurotransmitters:** chemicals that stimulate neurons so they can communicate
5. **Excitatory:** makes neurons more likely to fire
6. **Inhibitory:** makes neurons less likely to fire
7. **Excitation threshold:** the voltage differential necessary (+55 millivolts) to denature a neuron, causing an action potential to occur
8. **Action potential (nerve impulse):** the brief change in electrical charge that denatures a neuron. The action potential stimulates the axon terminals, restoring the process.

## SENSATION

### STATE OF THE EYE

1. **Cornea:** protective covering where reflected light first enters the eye
2. **Lens:** bends refracts light rays. Focuses a flipped, inverted image onto the retina
3. **Retina:** vision structure at back of eye that contains 2 types of receptor cells:
  - i. **Rods:** cells in the periphery of the retina that respond to black and white. Better in low light, more sensitive to motion, and have less visual acuity than cones
  - ii. **Cones:** contained in the fovea (middle of the retina). Respond to color, good for daytime vision, more visual acuity
4. **Optic nerve:** carries visual information to the lateral geniculate nucleus of the **thalamus**
5. **Blind spot:** place where the optic nerve exits the eye. Has no receptor cells, so no vision

### VISION

1. **Light waves:** electromagnetic waves that stimulate receptors in the eye
2. **Intensity:** amount of energy per unit of time (brightness)
3. **Wavelength:** distance between two wave crests (color)
4. **Process of color vision:**
  - i. **Trichromatic theory (Young-Helmholtz):** 3 types of cones detect 3 wavelengths of light (blue, green, red). Filtering does not require negative afterimages.
  - ii. **Opponent-process theory:** if you stare at one color, then look at white space, you see a color afterimage as the complementary hue of the original stimulus
  - iii. **Opponent-process theory (Hering):** receptor cells arranged in pairs (red-green, blue-yellow, black-white). If one color is stimulated, the other is inhibited.

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