Study Guide for Exam 1

Note: Students are responsible for all lectures and assigned material regardless of what is on this guide.

Items marked with an asterisk (*) are covered primarily or exclusively in the textbook, not in lecture notes.

HISTORY	
	What do Empiricism, Rationalism, and Nativism refer to with respect to knowledge? What is Idealism? Materialism? Dualism? What view do most scientists take today? What is the <i>mind-body problem</i> ? Who proposed it? What is Phrenology? Who proposed it? Why is it interesting? Who was Phineas Gage? Why is he an important figure in cognitive neuroscience? What is Structuralism and why was it considered a form of "mental chemistry"? What is <i>introspection</i> and why did it fail as a central method in psychology?
	What is Functionalism? Who proposed it? What was the central claim of Behaviorism? How does it differ from cognitive psychology'
	Why do many scientists reject a strict form of Behaviorism? What is the difference between classical & operant conditioning? What is the central idea between Gestalt Psychology? How are Piaget & Chomsky relevant to cognitive psychology? How did Human Factors, Communication Science, & Information Theory contribute to the
	emergence of cognitive psychology? What is the computer metaphor of mind? What is the Information Processing Approach to cognition? What are the main ideas that define the Connectionist Approach to cognition? What are the main ideas behind the Evolutionary* & Ecological* approaches to cognition?
	THODS What is a baseline and why is it important in measuring cognitive performance? What is Signal Detection Theory? List & define the primary observed data in a signal detection experiment? What are sensitivity & bias? What is meant by the term mental chronometry? What is the difference between a Simple RT task and a Choice RT task. How are these tasks used in Donder's Subtraction Technique?
0000000000	In general, what are the somatic & autonomic (para/sympathetic) nervous systems? What are the main structural features of a neuron? What is the defining difference between sensory, motor, & interneurons? What are the main components of a synapse? What are glial cells and what is their general role in the brain? What is myelin sheath and what does it do? What is the difference between white matter vs. grey matter? What is the general sequence of events in neural communication. What's the difference between a resting, graded, & action Potential. What is a neuron's resting level of activation? What is its firing threshold? What are neurotransmitters? What are the main neural structures to be found in the brain stem, and what functions do they perform?