

MindTap Quick Start Guide



Discovering Behavioral Neuroscience: An Introduction to Biological Psychology 4th Edition

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Updated to reflect current thinking in the field, the fourth edition provides a foundational understanding of the structure and function of the nervous system and its relationship to both typical and disordered human behavior. Author Laura Freberg - who has more than 30 years of teaching experience at schools ranging from community colleges to the Ivy League - presents classic concepts, current topics, and cutting-edge research in a style that is both accessible to beginning students and appealing to students with stronger backgrounds.

3 Key Features

Activity	Where to find it – an example	What is it	Why it matters
Mastery Training	<ol style="list-style-type: none"> Chapter 1: What is Behavioral Neuroscience? Chapter 1 Master Training <p><i>See it in the Cengage Mobile app. Users will also need to download the Cerego app.</i></p>	Mastery Training Learning engine that presents concepts to students, adapting to each student's performance to help them learn efficiently and effectively, and master core concepts.	Students who use this learning engine can improve their course grade by ~13% (Homer & Plass, 2013).
Virtual Biological Psychology Lab	<ol style="list-style-type: none"> Chapter 3: Neurophysiology: The Structure and Functions of the Cells of the Nervous System) Virtual Biological Psychology Lab: Neurons and Synapses 	Virtual Biological Psychology Lab Apply what you've learned about certain concepts in a simulated lab.	Labs provide animations and simulated lab experiences that illustrate biological processes in an engaging and graspable way.
Video Quizzes	<ol style="list-style-type: none"> Chapter 12: Learning and Memory Chapter 12 Video Quiz: Amnesia and Different Types of Memory 	Video Quizzes Watch a video about chapter specific research and answer a few questions.	Students see and engage with biological psychology concepts immediately after reading.

Freberg, *Discovering Behavioral Neuroscience: An Introduction to Biological Psychology, 2e 2016*
MindTap Asset Description

Activity	How many?	What is it?	Seat time?	Why it matters?
Getting Started	1	This is an introductory video that gives students a walk through the MindTap path.	3 minutes	This will help students get the most out of using MindTap.
Pre-Test	16	Answer a few questions to see how much you already know about this topic.	3-5 minutes	Engage students and assess their level of knowledge about the chapter topics BEFORE they start to read the chapter. It prepares them for the chapter content and helps them navigate the chapter and topics in a more informed manner.
Comprehension Check	77	Check your understanding of what you just read.	3-5 minutes	Students evaluate their understanding of each section immediately after reading.
Mastery Training powered by Cerego	16	Learning engine that presents concepts to students, adapting to each student's performance to help them learn efficiently and effectively, and master core concepts.	Minutes each day for at least one week to reach Level 1 mastery	Students who use this learning engine can improve their course grade by ~13% (Homer & Plass, 2013).
Virtual Biological Psychology Lab	5	Apply what you've learned about the	15-30 minutes	Labs provide animations and simulated lab experiences that illustrate

		certain concepts in a simulated lab.		biological processes in an engaging and graspable way.
Lab Quiz	5	Short quiz to check student's understanding of the lab.	3 minutes	Students take short quizzes to assess their understanding of the lab.
Video Quiz	15	Watch a video about chapter specific research and answer a few questions.	3-7 minutes	Students see and engage with biological psychology concepts immediately after reading.
Chapter test	16	Test your knowledge of all you have learned about the chapter.	20-30 minutes	Reinforce chapter concepts and test student's knowledge and comprehension of material. Students can test themselves on the concepts they learned throughout the chapter.

Topic/Chapter	MindTap Assignments	Points
Chapter 1 What Is Behavioral Neuroscience?	Pre-Test	5
	Comprehension Check: Neuroscience as an Interdisciplinary Field	6
	Mastery Training	30
	Comprehension Check: Historical Highlights in Neuroscience	6
	Comprehension Check: Behavioral Neuroscience Research Methods	6
	Video Quiz: Decoding the Brain	100
	Test	20
Chapter 2 Functional Neuroanatomy and the Evolution of the Nervous System	Pre-Test	5
	Comprehension Check: Anatomical Directions and Planes of Section	6
	Mastery Training	30
	Comprehension Check: Protecting and Supplying the Nervous System	6
	Comprehension Check: The Central Nervous System	6
	Comprehension Check: The Peripheral Nervous System	6
	Comprehension Check: The Evolution of the Human Nervous System	21
Test	6	
Chapter 3 Neurophysiology: The Structure and Functions of the Cells of the Nervous System	Pre-Test	5
	Comprehension Check: Glia and Neurons	6
	Mastery Training	30
	Comprehension Check: Generating Action Potentials	6
	Comprehension Check: The Synapse	9
	Virtual Biological Psychology Lab: Neurons and Synapses	6
	Lab Quiz: Neurons and Synapses	6
Test	20	
Chapter 4 Psychopharmacology	Pre-Test	5
	Comprehension Check: Neurotransmitters, Neuromodulators, and Neurohormones	6
	Mastery Training	30
	Comprehension Check: Drug Actions at the Synapse	6
	Comprehension Check: Basic Principles of Drug Effects	6
		100

	Comprehension Check: Effects of Selected Psychoactive Drugs Test	20
Chapter 5 Genetics and the Development of the Human Brain	Pre-Test Comprehension Check: The Genetic Bases of Behavior Mastery Training Comprehension Check: Building a Brain Comprehension Check: The Brain in Adolescence and Adulthood Video Quiz: Visual Spatial Processing Test	5 6 30 6 6 100 20
Chapter 6 Vision	Pre-Test Comprehension Check: From Sensation to Perception. Mastery Training Comprehension Check: The Structure and Functions of the Visual System Comprehension Check: Visual Perception Comprehension Check: The Life-Span Development of the Visual System Comprehension Check: Disorders of the Visual System Virtual Biological Psychology Lab: Visual Cortex Lab Quiz: Visual Cortex Test	5 6 30 6 6 6 6 4 20
Chapter 7 Nonvisual Sensation and Perception	Pre-Test Comprehension Check: Audition Mastery Training Comprehension Check: The Body Senses Comprehension Check: The Chemical Senses Test	5 6 30 6 6 20
Chapter 8 Movement	Pre-Test Comprehension Check: Muscles Mastery Training Comprehension Check: Neural Control of Muscles Comprehension Check: Reflex Control of Movement Comprehension Check: Motor Systems of the Brain Comprehension Check: Disorders of Movement Test	5 6 30 6 6 6 6 20

Chapter 9 Homeostasis and Motivation	Pre-Test Comprehension Check: Homeostasis and Motivation Mastery Training Comprehension Check: Regulating Body Temperature Comprehension Check: Thirst: Regulating the Body's Fluid Levels Comprehension Check: Hunger: Regulating the Body's Supply of Nutrients Comprehension Check: Healthy and Disordered Eating Virtual Biological Psychology Lab: Hypothalamic Control of Feeding Lab Quiz: Hypothalamic Control of Feeding Test	5 6 30 6 6 6 6 4 20
Chapter 10 Sexual Behavior	Pre-Test Comprehension Check: Sexual Development Mastery Training Comprehension Check: Sex Differences in Hormones, Brain Structure, and Behavior Comprehension Check: Sexual Orientation Comprehension Check: Biological Influences on Adult Sexual Behavior Comprehension Check: Attraction, Romantic Love, Sexual Desire, and Parenting Comprehension Check: Sexual Dysfunction and Its Treatment Test	5 6 30 6 6 6 6 6 20
Chapter 11 Sleep and Waking	Pre-Test Comprehension Check: Biorhythms Mastery Training Comprehension Check: Neural Correlates of Wakefulness and Sleep Comprehension Check: The Functions of Sleep Comprehension Check: Sleep-Wake Disorders Test	5 6 30 6 6 20
Chapter 12	Pre-Test Comprehension Check: Learning	5 6

Learning and Memory	Mastery Training	30
	Comprehension Check: Learning at the Synapse	6
	Comprehension Check: Brain Structures and Circuits Involved in Learning	6
	Comprehension Check: Types of Memory	6
	Comprehension Check: Brain Structures and Circuits Involved in Memory	6
	Comprehension Check: The Biochemistry of Memory	6
	Comprehension Check: The Effects of Stress and Healthy Aging on Learning and Memory	6
	Virtual Biological Psychology Lab: Habituation and Sensitization	4
	Lab Quiz: Habituation and Sensitization	100
	Video Quiz: Amnesia and Different Types of Memory	20
	Test	
Chapter 13 Hemispheric Asymmetry, Language, and Intelligence	Pre-Test	5
	Comprehension Check: Hemispheric Asymmetry and Its Behavioral Correlates	6
	Mastery Training	30
	Comprehension Check: Language	6
	Comprehension Check: Communication Disorders and Brain Mechanisms for Language	6
	Comprehension Check: Intelligence	6
	Test	20
Chapter 14 Emotion, Reward, Aggression, and Stress	Pre-Test	5
	Comprehension Check: Emotion	6
	Mastery Training	30
	Comprehension Check: Pleasure and Reward	6
	Comprehension Check: Aggression and Violence	6
	Comprehension Check: Stress	6
	Discussion Activity: Thinking Ethically	100
	Virtual Biological Psychology Lab: The Neurobiology of Fear	5
	Lab Quiz: The Neurobiology of Fear	100
	Video Quiz: Media Neuroscience	20
Test		
Chapter 15	Pre-Test	5

Neuropsychology	Comprehension Check: What Is Neuropsychology?	6
	Mastery Training	30
	Comprehension Check: Neurocognitive Disorders	6
	Comprehension Check: Neurocognitive Disorders Due to Other Medical Conditions	6
	Comprehension Check: Recovery and Treatment in Neurocognitive Disorders	6
	Test	20
Chapter 16 Psychopathology	Pre-Test	5
	Comprehension Check: What Does It Mean to Have a Mental Disorder?	
	Mastery Training	6
	Comprehension Check: Autism Spectrum Disorder	30
	Comprehension Check: Attention Deficit Hyperactivity Disorder	7
	Comprehension Check: Schizophrenia	6
	Comprehension Check: Bipolar Disorder	6
	Comprehension Check: Major Depressive Disorder (MDD)	6
	Comprehension Check: Anxiety Disorders	
	Comprehension Check: Obsessive-Compulsive Disorder (OCD)	6
	Comprehension Check: Posttraumatic Stress Disorder (PTSD)	6
	Comprehension Check: Antisocial Personality Disorder	6
	Video Quiz: Virtual Reality Exposure Therapy	6
	Test	10
	20	
Total		3482