



## Understanding the Brain [Science & Mathematics]

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UNDERSTANDING THE BRAIN -- a Teaching Company presentation of a set up 36 individual lectures on DVD in three cases with accompanying Course Guidebook. Each lecture is 30 minutes in length and taught by Dr. Jeanette Norden, a neuroscientist, Professor of Cell and Development Biology in the School of Medicine, and Professor of Neurosciences in the College of Arts and Sciences at Vanderbilt University. CASE 1: Historical Underpinnings of Neuroscience, Central Nervous System - Gross Organization, Central Nervous System - Internal Organization, Central Nervous System - Subdivisions, Cortex - Lobes and Areas, Cortex - Sensory/Motor/Association Areas, Central Nervous System - Development, Central Nervous System - Cellular Organization, Pathways and Synapses, Neurotransmitters, Stroke, The Visual System - The Eye; CASE 2: The Visual System - The Cortex, The Auditory System, The Somatosensory System, Agnosias, The Motor System - Voluntary Movement, The Motor System - Coordinated Movement, Parkinson's Disease, Language, the Limbic System - Anatomy, The Limbic System - Biochemistry, Depression, The Reward System - Anatomy; CASE 3: The Reward System - Drugs, Brain Plasticity, Emotion and Executive Function, Processing of Negative Emotions - Fear, Music and the Brain, Sexual dimorphism of the Brain, Sleep and Dreaming, Consciousness and the Self, Alzheimer's Disease, Risk factors for Alzheimer's disease, Wellness and the Brain - Effects of Stress, Neuroscience - Looking Back and Looking Ahead.

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