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Unit	Chapter	Video Link	Transcript
Critical Analysis And Reasoning Skills	Critical Analysis And Reasoning Skills	CARS overview	Hello, my name is Jennifer Riley, a
Critical Analysis And Reasoning Skills	Critical Analysis And Reasoning Skills	Foundations of comprehension	Hi, in this video I'm going to tell yo
Critical Analysis And Reasoning Skills	Critical Analysis And Reasoning Skills	Reasoning within the text	The purpose of this video is to help
Critical Analysis And Reasoning Skills	Critical Analysis And Reasoning Skills	Reasoning beyond the text	The purpose of this video is to help
Critical Analysis And Reasoning Skills	Critical Analysis And Reasoning Skills	Worked example: Living in a rational society	The purpose of this video is to sho
Critical Analysis And Reasoning Skills	Critical Analysis And Reasoning Skills	Worked example: The happy American	The purpose of this video, is to sho
Critical Analysis And Reasoning Skills	Critical Analysis And Reasoning Skills	Worked example: Seeing color through Homer's eyes	The purpose of this video is to sho
Critical Analysis And Reasoning Skills	Critical Analysis And Reasoning Skills	Worked example: Physical education in the UK	The purpose of this video is to give
Critical Analysis And Reasoning Skills	Critical Analysis And Reasoning Skills	Worked example: The honest truth about dishonesty	The purpose of this video is to sho
Biomolecules	Amino Acids And Proteins1	Central dogma of molecular biology	So what exactly is the central dogm
Biomolecules	Amino Acids And Proteins1	Central dogma - revisited	Hey. So you may have seen another
Biomolecules	Amino Acids And Proteins1	Peptide bonds: Formation and cleavage	Let's talk about the peptide bond. I
Biomolecules	Amino Acids And Proteins1	Special cases: Histidine, proline, glycine, cysteine	Hey. So welcome to the Amino Acid
Biomolecules	Amino Acids And Proteins1	Amino acid structure	Hey, so we're going to be talking a
Biomolecules	Amino Acids And Proteins1	Isoelectric point and zwitterions	Hey, so we're going to be talking a
Biomolecules	Amino Acids And Proteins1	Classification of amino acids	All right. So let's go through the cl
Biomolecules	Amino Acids And Proteins1	Four levels of protein structure	So why is it so important to learn a
Biomolecules	Amino Acids And Proteins1	Conformational stability: Protein folding and denaturation	Let's talk about conformational sta
Biomolecules	Enzyme Structure And Function	Introduction to enzymes and catalysis	So today I want to talk to you abou
Biomolecules	Enzyme Structure And Function	Enzymes and activation energy	Today, we're going to talk about ho
Biomolecules	Enzyme Structure And Function	Induced fit model of enzyme catalysis	So today, I'm going to talk to you a
Biomolecules	Enzyme Structure And Function	Six types of enzymes	So today, we're going to talk about
Biomolecules	Enzyme Structure And Function	Co-factors, co-enzymes, and vitamins	Today, we're going to talk about co
Biomolecules	Enzyme Structure And Function	Enzymes and their local environment	So today, we're going to talk about
Biomolecules	Enzyme Kinetics	An introduction to enzyme kinetics	So we're going to talk about enzym
Biomolecules	Enzyme Kinetics	Steady states and the Michaelis Menten equation	Today we're gonna talk about Mich
Biomolecules	Enzyme Kinetics	Cooperativity	So, we're gonna talk about Cooper
Biomolecules	Enzyme Kinetics	Allosteric regulation and feedback loops	So, today we're going to talk about
Biomolecules	Enzyme Kinetics	Non-enzymatic protein function	So we're going to be talking about
Biomolecules	Enzyme Kinetics	Covalent modifications to enzymes	So today we're gonna learn about
Biomolecules	DNA	DNA	As long as human beings have be
Biomolecules	DNA	Molecular structure of DNA	We already have an overview vide
Biomolecules	DNA	Antiparallel structure of DNA strands	In the video on the molecular struc
Biomolecules	DNA	Telomeres and single copy DNA vs repetitive DNA	Here is a pair of chromosomes as
Biomolecules	DNA	Leading and lagging strands in DNA replication	Let's talk a little bit in more depth a
Biomolecules	DNA	Transcription and mRNA processing	What we're going to do in this vide

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Unit	Chapter	Video Link	Transcript
Biomolecules	DNA	Speed and precision of DNA replication	In the earlier video on DNA replica
Biomolecules	DNA	Translation (mRNA to protein)	So we already know that chromos
Biomolecules	DNA	Differences in translation between prokaryotes and eukaryotes	Let's talk about some of the differe
Biomolecules	DNA	DNA repair 1	Let's take a look at a segment of D
Biomolecules	DNA	DNA repair 2	There are certain things that can c
Biomolecules	DNA	Semi conservative replication	Let's take a piece of DNA. And let's
Biomolecules	DNA	Protein modifications	After a polypeptide chain is forme
Biomolecules	DNA	Jacob Monod lac operon	So, hopefully by now you're familia
Biomolecules	Gene Control	Jacob-Monod: The Lac operon	So the JacobMonod model for gen
Biomolecules	Gene Control	DNA and chromatin regulation	So, the regulation of gene express
Biomolecules	Gene Control	Regulation of transcription	So what makes a cell that's locate
Biomolecules	Gene Control	Post-transcriptional regulation	Let's talk about posttranscriptional
Biomolecules	Gene Control	Non-coding RNA (ncRNA)	What is a noncoding RNA? A nonc
Biomolecules	Gene Control	Oncogenes	Oncogenes are genes that code fo
Biomolecules	Gene Control	Tumor suppressors	Tumor suppressor genes are those
Biomolecules	Genetic Mutations	An introduction to genetic mutations	Today I'm going to give you a quick
Biomolecules	Genetic Mutations	The different types of mutations	So, today we're going to talk about
Biomolecules	Genetic Mutations	The causes of genetic mutations	So, today we're going to talk about
Biomolecules	Genetic Mutations	Mutagens and carcinogens	So, today we're going to talk about
Biomolecules	Genetic Mutations	The effects of mutations	so today we're going to talk about
Biomolecules	Mendelian Genetics	An Introduction to Mendelian Genetics	[Voiceover] An introduction to Men
Biomolecules	Mendelian Genetics	Co-dominance and Incomplete Dominance	So today we're gonna talk about C
Biomolecules	Mendelian Genetics	Worked example: Punnett squares	In the last video, I drew this grid in
Biomolecules	Mendelian Genetics	Hardy-Weinberg equation	Now that we're familiar with the ide
Biomolecules	Mendelian Genetics	Applying the Hardy-Weinberg equation	Let's stick with this idea, the simpli
Biomolecules	Dna Technology	Gel electrophoresis	Let's say that you have some vials
Biomolecules	Dna Technology	Polymerase chain reaction (PCR)	I'm here with Emily, our biology co
Biomolecules	Dna Technology	DNA libraries & generating cDNA	Alright, so let's say that you've got
Biomolecules	Dna Technology	DNA cloning and recombinant DNA	Let's talk a little bit about DNA Clon
Biomolecules	Dna Technology	Hybridization (microarray)	So in this video, we're going to be
Biomolecules	Dna Technology	Expressing cloned genes	Normally when we think about clon
Biomolecules	Dna Technology	Southern blot	So in this video, I'm gonna be talki
Biomolecules	Dna Technology	DNA sequencing	Have you ever wondered how we s
Biomolecules	Dna Technology	Gene expression and function	So what is gene expression? Well,
Biomolecules	Dna Technology	Applications of DNA technologies	So what are some applications of I
Biomolecules	Dna Technology	Safety and ethics of DNA technologies	So, DNA technologies are really co

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Unit	Chapter	Video Link	Transcript
Biomolecules	Chromosomal Inheritance	Evidence that DNA is genetic material 1	One criterion that we use to define
Biomolecules	Chromosomal Inheritance	Evidence that DNA is genetic material 2	We spoke about the experiments c
Biomolecules	Chromosomal Inheritance	Sex-linked traits	By this point in the biology playlist,
Biomolecules	Chromosomal Inheritance	Worked example: Punnett squares	In the last video, I drew this grid in
Biomolecules	Chromosomal Inheritance	Genetic recombination	Let's take a look at the nucleus of
Biomolecules	Chromosomal Inheritance	Gene mapping	One of the very interesting things a
Biomolecules	Chromosomal Inheritance	Extranuclear inheritance 1	Normally when we think about DN
Biomolecules	Chromosomal Inheritance	Extranuclear inheritance 2	There was a scientist by the name
Biomolecules	Evolution Population Dynmaics	Evolution and natural selection	So today we're going to talk about
Biomolecules	Evolution Population Dynmaics	Fitness and fecundity	So we're going to talk about the co
Biomolecules	Evolution Population Dynmaics	Alternative selection	So natural selection isn't the only f
Biomolecules	Evolution Population Dynmaics	Genetic drift, bottleneck effect, and founder effect	We've already made several video
Biomolecules	Evolution Population Dynmaics	Inbreeding	So today, I want to talk to you abo
Biomolecules	Evolution Population Dynmaics	Reproductive isolation	Have you ever wondered how we c
Biomolecules	Principles Of Bioenergetics	Gibbs free energy introduction	Our bodies are constantly active. V
Biomolecules	Principles Of Bioenergetics	An analogy for Gibbs free energy	So in this video I want to go ahead
Biomolecules	Principles Of Bioenergetics	Heat transfer	Imagine that you are holding in yo
Biomolecules	Principles Of Bioenergetics	Enthalpy	So we've been talking kind of at a
Biomolecules	Principles Of Bioenergetics	Le Chatelier's principle	Let's say we had the reaction mole
Biomolecules	Principles Of Bioenergetics	Thermodynamics vs kinetics	In this video, I want to go ahead ar
Biomolecules	Overview Metabolism	Overview of metabolism: Anabolism and catabolism	Textbooks define metabolism, a to
Biomolecules	Overview Metabolism	ATP: Adenosine triphosphate	Sal: ATP or adenosine triposphate
Biomolecules	Overview Metabolism	ATP hydrolysis: Gibbs free energy	So let's talk about one of the most
Biomolecules	Overview Metabolism	ATP hydrolysis: Transfer of a phosphate group	Oftentimes in biochemistry, we wri
Biomolecules	Overview Metabolism	Oxidation and reduction review from biological point-of-view	What I want to do in this video is re
Biomolecules	Overview Metabolism	Oxidation and reduction in metabolism	I really want to go ahead and integ
Biomolecules	Overview Metabolism	Electron carrier molecules	Normally when we talk about the p
Biomolecules	Overview Metabolism	ATP hydrolysis mechanism	Sal: In the previous video we talke
Biomolecules	Carbohydrates	Carbohydrates - naming and classification	The term 'carbohydrate' refers to a
Biomolecules	Carbohydrates	Carbohydrates - absolute configuration, epimers, common names	Okay, so we spend a lot of time on
Biomolecules	Carbohydrates	Carbohydrates - Cyclic structures and anomers	All righty, so we've been speaking
Biomolecules	Carbohydrates	Carbohydrates- di and polysaccharides	Alright, so in a previous video I tal
Biomolecules	Carbohydrates	Keto-enol tautomerization (by Jay)	If you start with an aldehyde or a k
Biomolecules	Carbohydrate Metabolism	Cellular respiration introduction	In my humble opinion, the single m
Biomolecules	Carbohydrate Metabolism	Overview of glycolysis	We've already learned that cellular
Biomolecules	Carbohydrate Metabolism	Gluconeogenesis: the big picture	[Instructor] What I think is pretty fa

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Unit	Chapter	Video Link	Transcript
Biomolecules	Carbohydrate Metabolism	Gluconeogenesis: unique reactions	Alright, so in the previous study we
Biomolecules	Carbohydrate Metabolism	Regulation of glycolysis and gluconeogenesis	[Instructor] At its most simplistic lev
Biomolecules	Carbohydrate Metabolism	Pentose phosphate pathway	When talking about carbohydrate r
Biomolecules	Krebs Citric Acid Cycle And Oxidat	Krebs / citric acid cycle	So we already know that if we star
Biomolecules	Krebs Citric Acid Cycle And Oxidat	Regulation of pyruvate dehydrogenase	[Instructor] Before talking about the
Biomolecules	Krebs Citric Acid Cycle And Oxidat	Regulation of Krebs-TCA cycle	[Speaker] To save us some time, I'
Biomolecules	Krebs Citric Acid Cycle And Oxidat	Electron transport chain	After being done with glycolysis an
Biomolecules	Krebs Citric Acid Cycle And Oxidat	Oxidative phosphorylation and chemiosmosis	I made a slight error in the electron
Biomolecules	Krebs Citric Acid Cycle And Oxidat	Regulation of oxidative phosphorylation	[Instructor] In talking about how ox
Biomolecules	Krebs Citric Acid Cycle And Oxidat	Mitochondria, apoptosis, and oxidative stress	[Presenter] The mitochondria is pr
Biomolecules	Krebs Citric Acid Cycle And Oxidat	Calculating ATP produced in cellular respiration	[Instructor] Alright, so, if we were g
Biomolecules	Fat And Protein Metabolism	Introduction to energy storage	[Instructor] Now, a very simple pre
Biomolecules	Fat And Protein Metabolism	Digestion, Mobilization, and Transport of Fats - Part I	Now, of course, there are many nu
Biomolecules	Fat And Protein Metabolism	Digestion, Mobilization, and Transport of Fats - Part II	[Instructor] Recall that chylomicron
Biomolecules	Fat And Protein Metabolism	Fatty Acid Synthesis - Part I	[Instructor] Now the ultimate goal i
Biomolecules	Fat And Protein Metabolism	Fatty Acid Synthesis - Part II	To return to some basic principles
Biomolecules	Fat And Protein Metabolism	Overview of Fatty Acid Oxidation	[Instructor] What I've drawn here is
Biomolecules	Fat And Protein Metabolism	Fatty Acid Oxidation - Part I	what I've drawn out here are three
Biomolecules	Fat And Protein Metabolism	Fatty Acid Oxidation - Part II	Now it turns out that relative to the
Biomolecules	Fat And Protein Metabolism	How does the body adapt to starvation?	[Instructor] In this video, I want to e
Biomolecules	Fat And Protein Metabolism	Overview of Amino Acid Metabolism	[Instructor] In this video, I wanna p
Biomolecules	Endocrine System Fc1	Endocrine gland hormone review	Have you ever thought about the v
Biomolecules	Endocrine System Fc1	The hypothalamus and pituitary gland	OK, so today what I want to talk ab
Biomolecules	Endocrine System Fc1	Hormone concentration metabolism and negative feedback	When we talk about the endocrine
Biomolecules	Endocrine System Fc1	Types of hormones	OK. So when I introduced the endo
Biomolecules	Endocrine System Fc1	Cellular mechanism of hormone action	After coursing throughout the bloo
Biomolecules	Endocrine System Fc1	From terpenes to steroids part 1: Terpenes	In previous videos, I introduced ste
Biomolecules	Endocrine System Fc1	From terpenes to steroids part 2: Squalene, cholesterol, and steroids	Now that the light's at the end of th
Biomolecules	Hormonal Regulation	Endocrine gland hormone review	Have you ever thought about the v
Biomolecules	Hormonal Regulation	Hormone concentration metabolism and negative feedback	When we talk about the endocrine
Biomolecules	Hormonal Regulation	Types of hormones	OK. So when I introduced the endo
Biomolecules	Hormonal Regulation	Overview of metabolism: Anabolism and catabolism	Textbooks define metabolism, a to
Biomolecules	Hormonal Regulation	How does the body adapt to starvation?	[Instructor] In this video, I want to e
Biomolecules	Hormonal Regulation	Tissue specific metabolism and the metabolic states	When I look at this image, I'm not e
Biomolecules	Hormonal Regulation	Insulin and glucagon	Metabolism is just the flow of ener
Biomolecules	Hormonal Regulation	Glucose insulin and diabetes	Every cell in the human body need

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Unit	Chapter	Video Link	Transcript
Biomolecules	Hormonal Regulation	Production of insulin and glucagon	As you can see on this gentleman
Biomolecules	Hormonal Regulation	Hormone control of hunger	Let me ask you a question. Does t
Biomolecules	Hormonal Regulation	Hormones, body mass, and obesity	In this video, we're going to talk ab
Cells	Cell Membrane Overview	Cell membrane introduction	So when you go swimming or shov
Cells	Cell Membrane Overview	Phospholipid structure	In this video, we're going to actual
Cells	Cell Membrane Overview	Cell membrane overview and fluid mosaic model	In this video, we're going to explor
Cells	Cell Membrane Overview	Cell membrane proteins	In this video, we're going to explor
Cells	Cell Membrane Overview	Cell membrane fluidity	Why doesn't our cell membrane fa
Cells	Cell Membrane Overview	Membrane dynamics	In this video, we're going to explor
Cells	Cell Cell Interactions	Cell Junctions	In this video we're gonna talk a littl
Cells	Cell Cell Interactions	Membrane Receptors	In this video we're gonna talk a littl
Cells	Cell Cell Interactions	Ligand Gated Ion Channels	Have you ever wondered how our
Cells	Cell Cell Interactions	G Protein Coupled Receptors	In this video we're gonna talk abou
Cells	Cell Cell Interactions	Enzyme Linked Receptors	In this video we're gonna learn abo
Cells	Transport Across A Cell Membrane	How do things move across a cell membrane?	In our bodies, the cell is the smalle
Cells	Transport Across A Cell Membrane	Passive Transport by Facilitated Diffusion	Alright, so in this video we're going
Cells	Transport Across A Cell Membrane	Diffusion and osmosis	In this video, I want to cover sever
Cells	Transport Across A Cell Membrane	Glomerular filtration in the nephron	All right, so I think we have a prett
Cells	Transport Across A Cell Membrane	Sodium-potassium pump	In the last video, I showed you wha
Cells	Transport Across A Cell Membrane	Secondary active transport in the nephron	In the last video on the nephron, w
Cells	Transport Across A Cell Membrane	Exocytosis	Let's talk a little bit about exocytos
Cells	Transport Across A Cell Membrane	Membrane potentials - part 2	So in the last video we talked abou
Cells	Transport Across A Cell Membrane	Membrane potentials - part 1	I'm going to draw a little cell here f
Cells	Transport Across A Cell Membrane	Permeability and membrane potentials	So I've got four empty cells here. L
Cells	Cell Theory	History and development of cell theory	Alright, so in order to describe cell
Cells	Eukaryotic Cells	Characteristics of eukaryotic cells	All living things are made of cells. /
Cells	Eukaryotic Cells	The nucleus	Here's a diagram of a eukaryotic c
Cells	Eukaryotic Cells	Mitochondria	Mitochondria are organelles that a
Cells	Eukaryotic Cells	Endoplasmic reticulum and golgi apparatus	The endoplasmic reticulum is an o
Cells	Eukaryotic Cells	Lysosomes and peroxisomes	Lysosomes are membranebound c
Cells	Eukaryotic Cells	Epithelial and connective tissue	There are four different types of ar
Cells	Cytoskeleton	Introduction to cytoskeleton	Let's talk about the cytoskeleton, a
Cells	Cytoskeleton	Microfilaments and intermediate filaments	Microfilaments are found in the cyt
Cells	Cytoskeleton	Microtubules	Let's talk about microtubules in mc
Cells	Prokaryotes Bacteria	Overview of Archaea, Protista, and Bacteria	In this video, we're going to talk ab
Cells	Prokaryotes Bacteria	Bacterial characteristics - Gram staining	Let's talk about how we can actual

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Unit	Chapter	Video Link	Transcript
Cells	Viruses	Virus structure and classification	Viruses are interesting because they
Cells	Viruses	Viral replication: lytic vs lysogenic	So, let's talk about viral replication
Cells	Viruses	Retroviruses	So you might have an understanding
Cells	Viruses	Subviral particles: viroids and prions	Let's talk about subviral particles. "
Cells	Cellular Division	Cell cycle phases	So here I've got a picture of an ave
Cells	Cellular Division	Cell cycle control	Now, the cell cycle is not the sort c
Cells	Cellular Division	Loss of cell cycle control in cancer	There are other, higher levels of re
Cells	Cellular Division	Fertilization terminology: gametes, zygotes, haploid, diploid	So let's talk a little bit about how w
Cells	Cellular Division	Zygote differentiating into somatic and germ cells	In the last video, we saw an egg fr
Cells	Cellular Division	Interphase	Let's talk a little bit about the life cy
Cells	Cellular Division	Mitosis	In the previous video, we talked ab
Cells	Cellular Division	Comparing mitosis and meiosis	Before we go indepth on meiosis, I
Cells	Cellular Division	Phases of meiosis I	In the last video, we had just starte
Cells	Cellular Division	Phases of meiosis II	In the last video, we had complete
Cells	Cellular Division	Embryonic stem cells	Where we left off after the meiosis
Cells	Cellular Division	Cancer	Most cells in the human body just
Cells	Cellular Development	Stem cells	So, let me give you an analogy, he
Cells	Cellular Development	Cellular communication	To help us understand how cell to
Cells	Cellular Development	Mitochondria, apoptosis, and oxidative stress	The mitochondria is probably most
Cells	Cellular Development	Cellular specialization (differentiation)	You've probably heard of stem cell
Cells	Cellular Development	Telomeres and cell senescence	So, in your body you have a few di
Cells	Cellular Development	Cellular movement	So without explicitly thinking about
Cells	Embryology	Egg, sperm, and fertilization	organisms that reproduce sexually
Cells	Embryology	Early embryogenesis - Cleavage, blastulation, gastrulation, and neurulation	We're gonna talk about early embr
Cells	Embryology	Implantation	So it's been about a week since yo
Cells	Embryology	Gestation	Gestation is a term that most peop
Cells	Embryology	Germ layer derivatives	Now if you'll remember from near t
Organ Systems	Biological Basis Of Behavior The N	Structure of the nervous system	In this video I'm going to introduce
Organ Systems	Biological Basis Of Behavior The N	Functions of the nervous system	In this video, I'm going to talk abou
Organ Systems	Biological Basis Of Behavior The N	Motor unit	In this video I'm going to talk abou
Organ Systems	Biological Basis Of Behavior The N	Peripheral somatosensation	In this video, I'm going to talk abou
Organ Systems	Biological Basis Of Behavior The N	Muscle stretch reflex	In this video, I'm gonna talk about
Organ Systems	Biological Basis Of Behavior The N	Autonomic nervous system	In this video, I want to introduce th
Organ Systems	Biological Basis Of Behavior The N	Gray and white matter	In this video, I'm gonna talk about
Organ Systems	Biological Basis Of Behavior The N	Upper motor neurons	In this video I'm going to talk abou
Organ Systems	Biological Basis Of Behavior The N	Somatosensory tracts	In this video, I'm going to talk abou

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Unit	Chapter	Video Link	Transcript
Organ Systems	Biological Basis Of Behavior The N	Cerebellum	In this video, I'm going to talk about
Organ Systems	Biological Basis Of Behavior The N	Brainstem	In this video, I'm going to talk about
Organ Systems	Biological Basis Of Behavior The N	Subcortical cerebrum	In this video, I'm going to talk about
Organ Systems	Biological Basis Of Behavior The N	Cerebral cortex	In this video, I'm going to talk about
Organ Systems	Biological Basis Of Behavior The N	Neurotransmitter anatomy	In this video I want to just introduce
Organ Systems	Biological Basis Of Behavior The N	Early methods of studying the brain	Over the years, there have been m
Organ Systems	Biological Basis Of Behavior The N	Lesion studies and experimental ablation	Ablation studies, or experimental a
Organ Systems	Biological Basis Of Behavior The N	Modern ways of studying the brain	Today we have many different way
Organ Systems	Neural Cells	Introduction to neural cell types	In this video, I want to introduce th
Organ Systems	Neural Cells	Overview of neuron structure	In this video, I want to provide an c
Organ Systems	Neural Cells	Overview of neuron function	In this video, I want to provide an c
Organ Systems	Neural Cells	Astrocytes	In this video, we're going to talk ab
Organ Systems	Neural Cells	Microglia	In this video, we're going to talk ab
Organ Systems	Neural Cells	Ependymal cells	In this video, I want to talk about e
Organ Systems	Neural Cells	Oligodendrocytes	In this video, I want to talk about o
Organ Systems	Neural Cells	Schwann cells	In this video, I want to talk about S
Organ Systems	Neuron Membrane Potentials	Neuron graded potential description	In this video, I want to describe the
Organ Systems	Neuron Membrane Potentials	Neuron resting potential description	In this video, I want to describe the
Organ Systems	Neuron Membrane Potentials	Neuron resting potential mechanism	In this video, I want to talk about h
Organ Systems	Neuron Membrane Potentials	Neuron graded potential mechanism	In this video, I want to talk about h
Organ Systems	Neuron Membrane Potentials	Neuron action potential description	In this video, I want to talk about th
Organ Systems	Neuron Membrane Potentials	Neuron action potential mechanism	In this video, I want to talk about h
Organ Systems	Neuron Membrane Potentials	Effects of axon diameter and myelination	In this video, I want to talk about th
Organ Systems	Neuron Membrane Potentials	Action potential patterns	In this video, I want to talk about a
Organ Systems	Neural Synapses	Synapse structure	In this video, I want to talk about th
Organ Systems	Neural Synapses	Neurotransmitter release	In this video, I want to talk about h
Organ Systems	Neural Synapses	Types of neurotransmitters	In this video I want to talk about th
Organ Systems	Neural Synapses	Types of neurotransmitter receptors	In this video I want to talk about th
Organ Systems	Neural Synapses	Neurotransmitter removal	In this video, I wanna talk about hc
Organ Systems	Neural Synapses	Neuroplasticity	In this video I want to talk about ne
Organ Systems	Biosignaling	Membrane Receptors	In this video we're gonna talk a littl
Organ Systems	Biosignaling	Ligand Gated Ion Channels	Have you ever wondered how our
Organ Systems	Biosignaling	G Protein Coupled Receptors	In this video we're gonna talk abou
Organ Systems	Biosignaling	Enzyme Linked Receptors	In this video we're gonna learn abo
Organ Systems	Endocrine System	Endocrine gland hormone review	Have you ever thought about the v
Organ Systems	Endocrine System	The hypothalamus and pituitary gland	OK, so today what I want to talk at

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Unit	Chapter	Video Link	Transcript
Organ Systems	Endocrine System	Hormone concentration metabolism and negative feedback	When we talk about the endocrine
Organ Systems	Endocrine System	Types of hormones	OK. So when I introduced the endo
Organ Systems	Endocrine System	Cellular mechanism of hormone action	After coursing throughout the blood
Organ Systems	Endocrine System	From terpenes to steroids part 1: Terpenes	In previous videos, I introduced ste
Organ Systems	Endocrine System	From terpenes to steroids part 2: Squalene, cholesterol, and steroids	Now that the light's at the end of th
Organ Systems	The Circulatory System	Meet the heart	I really like this picture that I found
Organ Systems	The Circulatory System	Layers of the heart	So you're probably feeling pretty c
Organ Systems	The Circulatory System	Flow through the heart	So what you're looking at is one of
Organ Systems	The Circulatory System	Two circulations in the body	So what you're looking at is basica
Organ Systems	The Circulatory System	Lub dub	If you take a good long listen to yo
Organ Systems	The Circulatory System	Layers of a blood vessel	Let's talk about blood vessels I'm c
Organ Systems	The Circulatory System	Arteries vs. veins - what's the difference?	[Instructor] Let's talk a little bit abo
Organ Systems	The Circulatory System	Resistance in a tube	So let's say you're walking down th
Organ Systems	The Circulatory System	Putting it all together: Pressure, flow, and resistance	And I'm going to talk to you about
Organ Systems	The Circulatory System	Thermoregulation in the circulatory system	Let's say this is you, and let's say i
Organ Systems	Hematologic System	What's inside of blood?	Let's say that I go to the doctor's o
Organ Systems	Hematologic System	Hemoglobin moves O2 and CO2	Let's talk about exactly how oxyge
Organ Systems	Hematologic System	Bohr effect vs. Haldane effect	So we've talked a little bit about th
Organ Systems	Hematologic System	Blood types	Let's say that this is a red blood ce
Organ Systems	Hematologic System	How do we make blood clots?	Let's look at a blood vessel. A bloo
Organ Systems	Hematologic System	Coagulation cascade	Let's say this is a blood vessel and
Organ Systems	Hematologic System	Life and times of RBCs and platelets	So here's a guy, and like any guy,
Organ Systems	Hematologic System	Blood cell lineages	So, let's draw a blood vessel. Here
Organ Systems	The Respiratory System	Meet the lungs	Let's say that this is you. You're en
Organ Systems	The Respiratory System	Inhaling and exhaling	If you could have a magical ability
Organ Systems	The Respiratory System	How does lung volume change?	So we talked about inhaling and ex
Organ Systems	The Respiratory System	O2 and CO2 solubility	Let me do a little experiment. Let's
Organ Systems	The Respiratory System	Henry's law	Let's say you're taking a look at the
Organ Systems	The Respiratory System	Fick's law of diffusion	so I have a picture for you of Adolf
Organ Systems	The Respiratory System	Oxygen movement from alveoli to capillaries	So imagine you have a molecule o
Organ Systems	The Respiratory System	The respiratory center	So in this video what I wanted to fo
Organ Systems	The Respiratory System	Thermoregulation in the lungs	If you have a dog or if ever played
Organ Systems	Lymphatic System	Why we need a lymphatic system	Let's talk about the cardiovascular
Organ Systems	Lymphatic System	How lymphatic vessels move fluid	The heart pumps blood throughout
Organ Systems	Lymphatic System	The lymphatic system's role in immunity	We've talked about how the purpo
Organ Systems	Lymphatic System	Lipid and protein transport in the lymphatic system	We've already talked about two pu

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Unit	Chapter	Video Link	Transcript
Organ Systems	Lymphatic System	What is actually in lymph	So we've talked a lot about the lymphatic system.
Organ Systems	The Immune System	Role of phagocytes in innate or nonspecific immunity	Cela svrha imunog sistema je da se bave s bakterijama i virusima.
Organ Systems	The Immune System	Types of immune responses: Innate and adaptive, humoral vs. cell-mediated	In the last video, we talked a little bit about the immune system.
Organ Systems	The Immune System	B lymphocytes (B cells)	Let's just talk about the humoral response.
Organ Systems	The Immune System	Professional antigen presenting cells (APC) and MHC II complexes	In the very first immunology video, we talked about the immune system.
Organ Systems	The Immune System	Helper T cells	In talking about the adaptive immune system, we talked about the immune system.
Organ Systems	The Immune System	Cytotoxic T cells	When we learned about antigen presentation, we talked about the immune system.
Organ Systems	The Immune System	Review of B cells, CD4+ T cells and CD8+ T cells	Now that we've touched on all of the different types of immune cells, we can talk about the immune system.
Organ Systems	The Immune System	Clonal selection	In this video, I'd like to give an overview of the immune system.
Organ Systems	The Immune System	Self vs. non-self immunity	so the purpose of the immune system is to protect the body from foreign invaders.
Organ Systems	The Immune System	How white blood cells move around	So we've talked a lot about different types of white blood cells.
Organ Systems	The Immune System	Blood cell lineages	Po celom organizmu imamo krvne stanice.
Organ Systems	The Renal System	Meet the kidneys	Imagine you're in a movie theater.
Organ Systems	The Renal System	Kidney function and anatomy	The kidneys are pretty crazy. They filter the blood and remove waste.
Organ Systems	The Renal System	Glomerular filtration in the nephron	All right, so I think we have a pretty good understanding of the kidney.
Organ Systems	The Renal System	Changing glomerular filtration rate	All right, so I think we have a pretty good understanding of the kidney.
Organ Systems	The Renal System	Countercurrent multiplication in the kidney	So, we've already talked about this in the last video on the nephron, we talked about the kidney.
Organ Systems	The Renal System	Secondary active transport in the nephron	In the last video on the nephron, we talked about the kidney.
Organ Systems	The Renal System	Urination	Next time you're with a group of friends, you should talk about the kidney.
Organ Systems	The Renal System	The kidney and nephron	What I want to do in this video is talk about the kidney.
Organ Systems	Renal Regulation Of Blood Pressure	General overview of the RAAS system: Cells and hormones	The body has a really, really cool way of regulating blood pressure.
Organ Systems	Renal Regulation Of Blood Pressure	Renin production in the kidneys	Think back to the kidney, and we talked about the kidney.
Organ Systems	Renal Regulation Of Blood Pressure	Activating angiotensin 2	So we've talked a lot about the kidney, and we talked about the kidney.
Organ Systems	Renal Regulation Of Blood Pressure	Angiotensin 2 raises blood pressure	So we've talked about angiotensin II, which is a hormone that raises blood pressure.
Organ Systems	Renal Regulation Of Blood Pressure	Aldosterone raises blood pressure and lowers potassium	All right, we've talked about renin, which is an enzyme that converts angiotensinogen to angiotensin I.
Organ Systems	Renal Regulation Of Blood Pressure	Aldosterone removes acid from the blood	So in our last video, we left off here with the story of antidiuretic hormone.
Organ Systems	Renal Regulation Of Blood Pressure	ADH secretion	We're going to talk about antidiuretic hormone, which is a hormone that helps regulate water balance.
Organ Systems	Renal Regulation Of Blood Pressure	ADH effects on blood pressure	We left off the story of antidiuretic hormone, which is a hormone that helps regulate water balance.
Organ Systems	Renal Regulation Of Blood Pressure	Aldosterone and ADH	We're going to compare Aldosterone and ADH, which are hormones that help regulate water balance.
Organ Systems	The Gastrointestinal System	Meet the gastrointestinal tract	Have you ever realized that at you eat food, it goes through the gastrointestinal tract.
Organ Systems	The Gastrointestinal System	Mouth	So, the first place our food goes for is the mouth.
Organ Systems	The Gastrointestinal System	Teeth	So now that we've talked about the mouth, we can talk about the teeth.
Organ Systems	The Gastrointestinal System	Esophagus	After the food is swallowed, it leaves the mouth and goes into the esophagus.
Organ Systems	The Gastrointestinal System	Stomach	Did you know that the human stomach is about the size of a football?
Organ Systems	The Gastrointestinal System	Small intestine 1: Structure	Did you know that the stomach fluid is called gastric juice?
Organ Systems	The Gastrointestinal System	Small intestine 2: Digestion	So the best way to talk about the digestive system is to talk about the small intestine.

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Unit	Chapter	Video Link	Transcript
Organ Systems	The Gastrointestinal System	Small intestine 3: Absorption	All right, great. So, now we have a
Organ Systems	The Gastrointestinal System	Liver	The next accessory organ we're go
Organ Systems	The Gastrointestinal System	Hepatic lobule	So we've talked about a lot of vess
Organ Systems	The Gastrointestinal System	Biliary tree	I think we have a pretty good idea
Organ Systems	The Gastrointestinal System	Exocrine pancreas	So, the next organ we're going to t
Organ Systems	The Gastrointestinal System	Endocrine pancreas	Alright, then on that note why don't
Organ Systems	The Gastrointestinal System	Colon, rectum, and anus	We've come a long way since we s
Organ Systems	The Gastrointestinal System	Control of the GI tract	Other than the brain, I'd say your i
Organ Systems	Muscular System	Myosin and actin	What I want to do in this video is tr
Organ Systems	Muscular System	How tropomyosin and troponin regulate muscle contraction	In the last video, we learned how r
Organ Systems	Muscular System	Role of the sarcoplasmic reticulum in muscle cells	We know from the last video that if
Organ Systems	Muscular System	Anatomy of a skeletal muscle cell	Now, why don't we take a step bac
Organ Systems	Muscular System	Three types of muscle	Let's talk about muscles. And I've c
Organ Systems	Muscular System	Motor neurons	When we're at a dance party, and
Organ Systems	Muscular System	Neuromuscular junction, motor end-plate	So when we're at a social gatherin
Organ Systems	Muscular System	Type 1 and type 2 muscle fibers	What's the difference between type
Organ Systems	Muscular System	Calcium puts myosin to work	I'm gonna draw for you the heart A
Organ Systems	Muscular System	Muscle innervation	So there are muscles that we cont
Organ Systems	Muscular System	Autonomic vs somatic nervous system	We can think of the nervous syste
Organ Systems	Muscular System	Thermoregulation by muscles	Why do we shiver when it's cold? \
Organ Systems	The Skeletal System	Skeletal structure and function	So in this video we're going to be t
Organ Systems	The Skeletal System	Microscopic structure of bone - the Haversian system	[Instructor] All right so we're going
Organ Systems	The Skeletal System	Cellular structure of bone	[Instructor] Okay, so now now let's
Organ Systems	The Skeletal System	Skeletal endocrine control	Now, one of the main functions tha
Organ Systems	The Skeletal System	Cartilage	[Instructor] Alrighty, so we're talkin
Organ Systems	The Skeletal System	Ligaments, tendons, and joints	[Instructor] So, ligaments and tend
Organ Systems	Integumentary System	Meet the skin! (Overview)	in this next set of videos we're goin
Organ Systems	Integumentary System	What is skin? (Epidermis)	They say that beauty is only skin d
Organ Systems	Integumentary System	What lies beneath the epidermis? (Dermis and Hypodermis)	So, now that we've talked about th
Organ Systems	Integumentary System	Where do our nails and hair come from?	So to build on our knowledge of th
Organ Systems	Integumentary System	What's in sweat? (Holocrine, Apocrine, Merocrine Glands)	So to continue our discussion of ap
Organ Systems	Integumentary System	LeBron Asks: Why does sweating cool you down?	Why does sweating cool you down
Organ Systems	Integumentary System	Overview of Sensation and Meissner's Corpuscle	So now that we understand the str
Organ Systems	Integumentary System	Pacinian's Corpuscle and Merkel's Disk	The next mechanoreceptor is calle
Organ Systems	Integumentary System	Ruffini's Ending and Hair Follicle Receptor	And then down to the next mechar
Organ Systems	Integumentary System	Thermoregulation by muscles	Why do we shiver when it's cold? \

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Unit	Chapter	Video Link	Transcript
Organ Systems	Integumentary System	Pain and Temperature	So two senses that are extremely i
Organ Systems	Mcat Reproductive System	Welcome to the reproductive system	Welcome to the reproductive syste
Organ Systems	Mcat Reproductive System	Anatomy of the male reproductive system	So let's look at the male reproducti
Organ Systems	Mcat Reproductive System	Transport of sperm via erection and ejaculation	We're gonna talk about the transpo
Organ Systems	Mcat Reproductive System	Spermatogenesis	We're going to talk about a pair of
Organ Systems	Mcat Reproductive System	Testosterone	Let's meet testosterone. We produ
Organ Systems	Mcat Reproductive System	Basics of egg development	So let's look at the female reprodu
Organ Systems	Mcat Reproductive System	The ovarian cycle	We're gonna talk about the ovariar
Organ Systems	Mcat Reproductive System	Meet the placenta	In this picture we've got a pregnan
Organ Systems	Mcat Reproductive System	Reproductive cycle graph - Follicular phase	So we know that a female's eggs c
Organ Systems	Mcat Reproductive System	Reproductive cycle graph - Luteal phase	We kind of looked at the first half c
Organ Systems	Mcat Reproductive System	Estrogen	Let's talk about one of the major fe
Organ Systems	Mcat Reproductive System	Maternal changes in pregnancy	Pregnancy is the development of c
Organ Systems	Mcat Reproductive System	Labor (parturition)	When a pregnancy has reached its
Organ Systems	Mcat Reproductive System	Breast anatomy and lactation	Lactation is a process where milk i
Physical Processes	Vectors And Scalars	Intro to vectors and scalars	What I want to do in this video is ta
Physical Processes	Vectors And Scalars	Visualizing vectors in 2 dimensions	all the problems we've been dealin
Physical Processes	Vectors And Scalars	Unit vector notation	Good afternoon. We've done a lot
Physical Processes	Vectors And Scalars	Unit vector notation (part 2)	Welcome back. In the last video, I
Physical Processes	Speed And Velocity	Calculating average speed and velocity edited	Now that we know a little bit about
Physical Processes	Speed And Velocity	Solving for time	Let's work through another few sce
Physical Processes	Speed And Velocity	Displacement from time and velocity example	Let's do one more example dealing
Physical Processes	Speed And Velocity	Instantaneous speed and velocity	[Instructor] Pretend you are a phys
Physical Processes	Acceleration Mcat	Acceleration	In this video, I want to talk a little b
Physical Processes	Acceleration Mcat	Airbus A380 take-off time	This right here is a picture of an Ai
Physical Processes	Acceleration Mcat	Airbus A380 take-off distance	In the last video, we figured out the
Physical Processes	Acceleration Mcat	Why distance is area under velocity-time line	Let's say I have something moving
Physical Processes	Acceleration Mcat	Average velocity for constant acceleration	The goal of this video is to explore
Physical Processes	Newtons Laws And Equilibrium	More on Newton's first law of motion	In this video, I want to talk a little b
Physical Processes	Newtons Laws And Equilibrium	Applying Newton's first law of motion	Now that we know a little bit about
Physical Processes	Newtons Laws And Equilibrium	Newton's second law of motion	Newton's First Law tells us that an
Physical Processes	Newtons Laws And Equilibrium	Unbalanced forces and motion	I have four statements here and I v
Physical Processes	Newtons Laws And Equilibrium	Newton's third law of motion	We're now ready for Newton's thir
Physical Processes	Newtons Laws And Equilibrium	Center of mass	I will now do a presentation on the
Physical Processes	Newtons Laws And Equilibrium	Introduction to torque	Welcome to the presentation on to
Physical Processes	Normal Forces	Balanced and unbalanced forces	You'll hear the terms , Balanced F

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Unit	Chapter	Video Link	Transcript
Physical Processes	Normal Forces	Normal force and contact force	Let's say that I have a huge, maybe
Physical Processes	Normal Forces	Normal force in an elevator	What I want to do in this video is th
Physical Processes	Normal Forces	Slow sock on Lubricon VI	This is a picture of the planet Lubri
Physical Processes	Normal Forces	Normal forces on Lubricon VI	Let's continue with our study of the
Physical Processes	Force Of Tension	Introduction to tension	I will now introduce you to the conc
Physical Processes	Force Of Tension	Introduction to tension (part 2)	Welcome back. We'll now do anoth
Physical Processes	Force Of Tension	Tension in an accelerating system and pie in the face	Welcome back. We just finished th
Physical Processes	Forces On Inclined Planes	Inclined plane force components	Let's say I have some type of a blo
Physical Processes	Forces On Inclined Planes	Force of friction keeping the block stationary	In the last video we had a ten kilog
Physical Processes	Forces On Inclined Planes	Ice accelerating down an incline	Let's say that I have a ramp made
Physical Processes	Forces On Inclined Planes	Correction to force of friction keeping the block stationary	Just realized that I typed in the wr
Physical Processes	Forces On Inclined Planes	Force of friction keeping velocity constant	I wanna make a quick clarification
Physical Processes	Forces On Inclined Planes	Intuition on static and kinetic friction comparisons	I mentioned in the last several vide
Physical Processes	Forces On Inclined Planes	Static and kinetic friction example	So I have got this block of wood he
Physical Processes	Work And Energy Mcat	Introduction to work and energy	Welcome back. I'm now going to ir
Physical Processes	Work And Energy Mcat	Work and energy (part 2)	Welcome back. In the last video, I
Physical Processes	Work And Energy Mcat	Work and the work-energy principle	In order to transfer energy to an ob
Physical Processes	Work And Energy Mcat	Work example problems	I'm going to show you some exam
Physical Processes	Work And Energy Mcat	Conservation of energy	Welcome back. At the end of the la
Physical Processes	Work And Energy Mcat	Work/energy problem with friction	Welcome back. Welcome back. W
Physical Processes	Work And Energy Mcat	Intro to springs and Hooke's law	Let's learn a little bit about springs.
Physical Processes	Work And Energy Mcat	Potential energy stored in a spring	Welcome back. So we have this gr
Physical Processes	Work And Energy Mcat	Spring potential energy example (mistake in math)	Welcome back. So let's do a poten
Physical Processes	Work And Energy Mcat	Work as the transfer of energy	One way to find the amount of wor
Physical Processes	Work And Energy Mcat	Conservative forces	What's a conservative force? Cons
Physical Processes	Work And Energy Mcat	Power	Check out these weightlifters. The
Physical Processes	Work And Energy Mcat	Introduction to mechanical advantage	Welcome back. We'll now use a litt
Physical Processes	Fluids At Rest	Pressure and Pascal's principle (part 1)	Let's learn a little bit about fluids. Y
Physical Processes	Fluids At Rest	Pressure and Pascal's principle (part 2)	Welcome back. To just review wha
Physical Processes	Fluids At Rest	Pressure at a depth in a fluid	In the last video, we showed that a
Physical Processes	Fluids At Rest	Finding height of fluid in a barometer	In the last video, we learned that th
Physical Processes	Fluids At Rest	Archimedes principle and buoyant force	Let's say we have a cup of water. I
Physical Processes	Fluids At Rest	Buoyant force example problems edited	Let's say that when, I have some c
Physical Processes	Fluids At Rest	Specific gravity	[MUSIC PLAYING THROUGHOUT]
Physical Processes	Fluids In Motion	Volume flow rate and equation of continuity	Everything we've done so far has t
Physical Processes	Fluids In Motion	Bernoulli's equation derivation part 1	Let's say we have a pipe again thi

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Unit	Chapter	Video Link	Transcript
Physical Processes	Fluids In Motion	Bernoulli's equation derivation part 2	This is just a quick review of what
Physical Processes	Fluids In Motion	Finding fluid speed exiting hole	Where we left off, we had this can
Physical Processes	Fluids In Motion	More on finding fluid speed from hole	Before we move on, I just wanted t
Physical Processes	Fluids In Motion	Finding flow rate from Bernoulli's equation	Let's say I have a horizontal pipe t
Physical Processes	Fluids In Motion	Viscosity and Poiseuille flow	Check out this empty box. Now, ch
Physical Processes	Fluids In Motion	Turbulence at high velocities and Reynold's number	Okay so we saw that if you have n
Physical Processes	Fluids In Motion	Surface Tension and Adhesion	If you took a glass of water and a r
Physical Processes	Fluids In Motion	Venturi effect and Pitot tubes	Let's talk about the Venturi effect. "
Physical Processes	Fluids In Motion	Two circulations in the body	So what you're looking at is basica
Physical Processes	Fluids In Motion	Arteries vs. veins - what's the difference?	[Instructor] Let's talk a little bit abo
Physical Processes	Fluids In Motion	Resistance in a tube	So let's say you're walking down th
Physical Processes	Fluids In Motion	Putting it all together: Pressure, flow, and resistance	And I'm going to talk to you about
Physical Processes	Gas Phase	Absolute temperature and the kelvin scale	All bodies and systems possess a
Physical Processes	Gas Phase	Pressure and the simple mercury barometer	We typically consider matter to exi
Physical Processes	Gas Phase	Definition of an ideal gas, ideal gas law	[Instructor] Okay, in our last video,
Physical Processes	Gas Phase	Derivation of gas constants using molar volume and STP	All right. So, we just put together a
Physical Processes	Gas Phase	Boyle's law	Robert Boyle was an Irish scientist
Physical Processes	Gas Phase	Charles's law	We just finished talking about Boyl
Physical Processes	Gas Phase	Avogadro's law	So continuing the history of the ide
Physical Processes	Gas Phase	The van der Waals equation	#N/A
Physical Processes	Gas Phase	Partial pressure	We have a situation here where w
Physical Processes	Kinetic Molecular Theory Of Gas	Boltzmann's constant	[Instructor] Let's talk about Boltzm
Physical Processes	Kinetic Molecular Theory Of Gas	Heat capacity at constant volume and pressure	Imagine you had a monatomic ide
Physical Processes	Kinetic Molecular Theory Of Gas	Kinetic molecular theory of gases	[Instructor] So I wanna talk to you
Physical Processes	Electrostatics 1	Triboelectric effect and charge	I'm guessing that you've had the e
Physical Processes	Electrostatics 1	Coulomb's Law	So we've already started to familia
Physical Processes	Electrostatics 1	Conservation of charge	There's a law in physics that has s
Physical Processes	Electrostatics 1	Conductors and insulators	It's useful to pretend like all materi
Physical Processes	Electrostatics 1	Electric field	Let's imagine that instead of havin
Physical Processes	Electrostatics 1	Electric potential energy	Let's review a little bit of what we h
Physical Processes	Electrostatics 1	Voltage	Before we move on, I want to clarif
Physical Processes	Electrostatics 1	Electric potential at a point in space	Let's talk about Electric Potential V
Physical Processes	Current And Resistance	Introduction to circuits and Ohm's law	[Instructor] What we will introduce
Physical Processes	Current And Resistance	Resistors in series	Let's make our circle a little bit mo
Physical Processes	Current And Resistance	Resistors in parallel	Last video, we saw what happens
Physical Processes	Current And Resistance	Example: Analyzing a more complex resistor circuit	Let's see if we can apply what we'

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Unit	Chapter	Video Link	Transcript
Physical Processes	Current And Resistance	Resistivity and conductivity	You probably know that if you hook
Physical Processes	Current And Resistance	Electrolytic conductivity	Most solids offer some amount of r
Physical Processes	Current And Resistance	Voltmeters and Ammeters	Let's say you have a circuit here a
Physical Processes	Capacitors	Capacitors and capacitance	What's a capacitor? Well this is a c
Physical Processes	Capacitors	Capacitance	We learned several videos ago tha
Physical Processes	Capacitors	Energy of a capacitor	SPEAKER 1: Check out this capac
Physical Processes	Capacitors	Capacitors in series	Having to deal with a single capac
Physical Processes	Capacitors	Capacitors in parallel	Look at the way that these six and
Physical Processes	Capacitors	Dielectrics in capacitors	In most capacitors, a nonconducti
Physical Processes	Magnetism Mcat	Magnetism - Part 1	we've learned a little bit about grav
Physical Processes	Magnetism Mcat	Magnetism - Part 2	We know a little bit about magnets
Physical Processes	Magnetism Mcat	Magnetism - Part 3	In the last video, we learned, or at
Physical Processes	Magnetism Mcat	Magnetism - Part 4	In the last video we figured out tha
Physical Processes	Intro Electrochemistry Mcat	Redox reaction from dissolving zinc in copper sulfate	So what we have here is a solution
Physical Processes	Intro Electrochemistry Mcat	Introduction to galvanic/voltaic cells	In the last video, we saw that if you
Physical Processes	Intro Electrochemistry Mcat	Electrodes and voltage of Galvanic cell	In the last video, we talked about h
Physical Processes	Intro Electrochemistry Mcat	Shorthand notation for galvanic/voltaic cells	Before we get into shorthand notat
Physical Processes	Intro Electrochemistry Mcat	Free energy and cell potential	When you're dealing with a voltaic
Physical Processes	Intro Electrochemistry Mcat	Standard reduction potentials	Here we have a table of Standard
Physical Processes	Intro Electrochemistry Mcat	Voltage as an intensive property	When you are working with standa
Physical Processes	Intro Electrochemistry Mcat	Using reduction potentials	Let's say that we're given this reac
Physical Processes	Intro Electrochemistry Mcat	Spontaneity and redox reactions	Our goal is to predict whether or n
Physical Processes	Intro Electrochemistry Mcat	Standard cell potential and the equilibrium constant	we've already seen the equation o
Physical Processes	Intro Electrochemistry Mcat	Calculating the equilibrium constant from the standard cell potential edited	Our goal is to calculate the equilib
Physical Processes	Intro Electrochemistry Mcat	Nernst equation	We've already seen that the chang
Physical Processes	Intro Electrochemistry Mcat	Using the Nernst equation	You can use the Nernst equation to
Physical Processes	Intro Electrochemistry Mcat	Concentration cell	A concentration cell is a cell that h
Physical Processes	Intro Electrochemistry Mcat	Introduction to electrolysis	Before we get into electrolysis, let'
Physical Processes	Intro Electrochemistry Mcat	Quantitative electrolysis	Here's the electrolytic cell we talke
Physical Processes	Intro Electrochemistry Mcat	Electrolysis of molten sodium chloride edited	[Instructor] Here's a simplified diag
Physical Processes	Intro Electrochemistry Mcat	Lead storage battery	Here's the reaction for a lead stora
Physical Processes	Intro Electrochemistry Mcat	Nickel-cadmium battery	We need to balance the redox reac
Physical Processes	Sound	Production of sound	Check out this speaker. If we plug
Physical Processes	Sound	Sound Properties: Amplitude, period, frequency, wavelength	This is what a sound wave sounds
Physical Processes	Sound	Speed of Sound	If we let a speaker make one short
Physical Processes	Sound	Relative speed of sound in solids, liquids, and gases	To change the speed of sound you

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Unit	Chapter	Video Link	Transcript
Physical Processes	Sound	Decibel Scale	All right, I'm going to tell you about
Physical Processes	Sound	Why do sounds get softer?	You are straight up partying at the
Physical Processes	Sound	Ultrasound medical imaging	The human ear can hear frequenc
Physical Processes	Sound	Standing waves in open tubes	If you blow air over the top of a so
Physical Processes	Sound	Standing waves in closed tubes	Okay, so last time we saw that for
Physical Processes	Sound	Doppler effect introduction	What we're going to do in this vide
Physical Processes	Sound	Doppler effect formula for observed frequency	I've got this source of a wave right
Physical Processes	Sound	Doppler effect formula when source is moving away	In the last video, we figured out the
Physical Processes	Sound	When the source and the wave move at the same velocity	In the last several videos, we assu
Physical Processes	Sound	Doppler effect for a moving observer	the frequency that you'll observe w
Physical Processes	Sound	Doppler effect: reflection off a moving object	Imagine, you are at the gym. But, y
Physical Processes	Light And Electromagnetic Radiatio	Electromagnetic waves and the electromagnetic spectrum	You might note that if you've got a
Physical Processes	Light And Electromagnetic Radiatio	Polarization of light, linear and circular	Let's talk about polarization of light
Physical Processes	Light And Electromagnetic Radiatio	Wave interference	If two waves overlap in the same n
Physical Processes	Light And Electromagnetic Radiatio	Young's double slit introduction	Young's Double Slit experiment loc
Physical Processes	Light And Electromagnetic Radiatio	Young's double slit equation	Okay so that's all well and good, b
Physical Processes	Light And Electromagnetic Radiatio	Young's double slit problem solving	I think we should look at an exampl
Physical Processes	Light And Electromagnetic Radiatio	Diffraction grating	Double slits are cool because they
Physical Processes	Light And Electromagnetic Radiatio	Single slit interference	Let's talk about Single Slit Interfere
Physical Processes	Light And Electromagnetic Radiatio	More on single slit interference	So I got to be honest with you. Sin
Physical Processes	Light And Electromagnetic Radiatio	Thin Film Interference part 1	Let's talk about thin film interferenc
Physical Processes	Light And Electromagnetic Radiatio	Thin Film Interference part 2	This wavelength, this just says wa
Physical Processes	Light And Electromagnetic Radiatio	Photon Energy	We've been treating light as a wav
Physical Processes	Infrared And Ultraviolet Visible Spe	Introduction to infrared spectroscopy	If you shine infrared light on a mole
Physical Processes	Infrared And Ultraviolet Visible Spe	Bonds as springs	In the last video, we said that certa
Physical Processes	Infrared And Ultraviolet Visible Spe	Signal characteristics - wavenumber	In the last video we saw that the fr
Physical Processes	Infrared And Ultraviolet Visible Spe	IR spectra for hydrocarbons	We've already looked at a carbonh
Physical Processes	Infrared And Ultraviolet Visible Spe	Signal characteristics - intensity	We've been talking about bonds as
Physical Processes	Infrared And Ultraviolet Visible Spe	Signal characteristics - shape	The shape of the signal can also b
Physical Processes	Infrared And Ultraviolet Visible Spe	Symmetric and asymmetric stretching	Before we get into symmetric and
Physical Processes	Infrared And Ultraviolet Visible Spe	IR signals for carbonyl compounds	If you look at the dot structure for a
Physical Processes	Infrared And Ultraviolet Visible Spe	IR spectra practice	Let's look at some practice IR spec
Physical Processes	Infrared And Ultraviolet Visible Spe	UV/Vis spectroscopy	Different molecules can absorb dif
Physical Processes	Infrared And Ultraviolet Visible Spe	Absorption in the visible region	On the right we have the dot struct
Physical Processes	Infrared And Ultraviolet Visible Spe	Conjugation and color	Most organic molecules don't have
Physical Processes	Proton Nuclear Magnetic Resonan	Introduction to proton NMR	The nucleus of a Hydrogen atom is

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Unit	Chapter	Video Link	Transcript
Physical Processes	Proton Nuclear Magnetic Resonance	Nuclear shielding	Before we get into nuclear shielding
Physical Processes	Proton Nuclear Magnetic Resonance	Chemical equivalence	Let's see how to determine the number
Physical Processes	Proton Nuclear Magnetic Resonance	Chemical shift	In the previous video, we looked at
Physical Processes	Proton Nuclear Magnetic Resonance	Electronegativity and chemical shift	If we look at methane we have four
Physical Processes	Proton Nuclear Magnetic Resonance	Diamagnetic anisotropy	In this video we're gonna talk about
Physical Processes	Proton Nuclear Magnetic Resonance	Integration	Integration is the area under each
Physical Processes	Proton Nuclear Magnetic Resonance	Spin-spin splitting (coupling)	If we look at this molecule, we would
Physical Processes	Proton Nuclear Magnetic Resonance	Multiplicity: n + 1 rule	The n plus one rule allows us to predict
Physical Processes	Proton Nuclear Magnetic Resonance	Coupling constant	If you look at the red and blue protons
Physical Processes	Proton Nuclear Magnetic Resonance	Complex splitting	More complex splitting occurs when
Physical Processes	Proton Nuclear Magnetic Resonance	Hydrogen deficiency index	When you get a spectroscopy problem
Physical Processes	Proton Nuclear Magnetic Resonance	Proton NMR practice 1	Let's say we're given this molecular formula
Physical Processes	Proton Nuclear Magnetic Resonance	Proton NMR practice 2	Here we have a proton NMR spectrum
Physical Processes	Proton Nuclear Magnetic Resonance	Proton NMR practice 3	For this NMR, the molecular formula is
Physical Processes	Thin Lenses	Convex lenses	We've talked a lot about mirrors, in
Physical Processes	Thin Lenses	Convex lens examples	Like we did with parabolic mirrors,
Physical Processes	Thin Lenses	Concave lenses	We've talked a lot about convex lenses
Physical Processes	Thin Lenses	Object image and focal distance relationship (proof of formula)	We've been doing a bunch of these
Physical Processes	Thin Lenses	Object image height and distance relationship	In the last video, I showed that a bunch
Physical Processes	Thin Lenses	Thin lens equation and problem solving	When you're dealing with these thin
Physical Processes	Thin Lenses	Multiple lens systems	If I had been handed this problem
Physical Processes	Thin Lenses	Diopters, Aberration, and the Human Eye	Here's something confusing. If I showed
Physical Processes	Spherical Mirrors	Virtual image	Let's say I've got some type of a bicon
Physical Processes	Spherical Mirrors	Parabolic mirrors and real images	In this video, I want to expose you
Physical Processes	Spherical Mirrors	Parabolic mirrors 2	Let's draw a bunch of parabolic mirrors
Physical Processes	Spherical Mirrors	Convex parabolic mirrors	All the parabolic mirror examples we
Physical Processes	Reflection And Refraction	Specular and diffuse reflection	In this video we're going to try to le
Physical Processes	Reflection And Refraction	Specular and diffuse reflection 2	I wanna talk a little bit more about
Physical Processes	Reflection And Refraction	Refraction and Snell's law	In the last couple of videos we talk
Physical Processes	Reflection And Refraction	Refraction in water	Before doing more examples with
Physical Processes	Reflection And Refraction	Snell's law example 1	As promised, let's do a couple of s
Physical Processes	Reflection And Refraction	Snell's law example 2	Let's do a slightly more involved S
Physical Processes	Reflection And Refraction	Total internal reflection	We know from the last few videos,
Physical Processes	Reflection And Refraction	Dispersion	Check out this ray of light. When it
Physical Processes	Atomic Nucleus	Atomic number, mass number, and isotopes	So the atomic number is symbolized
Physical Processes	Atomic Nucleus	Atomic mass	If we wanted to find the mass of or

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Unit	Chapter	Video Link	Transcript
Physical Processes	Atomic Nucleus	Mass defect and binding energy	let's say you want to calculate the
Physical Processes	Atomic Nucleus	Nuclear stability and nuclear equations	In the last video, we talked about t
Physical Processes	Atomic Nucleus	Writing nuclear equations for alpha, beta, and gamma decay	Let's look at three types of radioac
Physical Processes	Atomic Nucleus	Types of decay	SAL: Everything we've been dealin
Physical Processes	Atomic Nucleus	Half-life and carbon dating	SAL: In the last video we saw all s
Physical Processes	Atomic Nucleus	Half-life plot	Phosphorus32 is radioactive and u
Physical Processes	Atomic Nucleus	Exponential decay formula proof (can skip, involves calculus)	SAL: The notion of a halflife is use
Physical Processes	Atomic Nucleus	Introduction to exponential decay	Two videos ago we learned about
Physical Processes	Atomic Nucleus	Exponential decay and semi-log plots	Here we have a graph of exponen
Physical Processes	Atomic Nucleus	More exponential decay examples	Let's do a couple of more of these
Physical Processes	Atomic Nucleus	Mass spectrometer	Uranium consists of two major isot
Physical Processes	Electronic Structure	Photoelectric effect	sometimes light seems to act as a
Physical Processes	Electronic Structure	Bohr model radii (derivation using physics)	In the Bohr model of the hydrogen
Physical Processes	Electronic Structure	Bohr model radii	if you didn't watch the last video be
Physical Processes	Electronic Structure	Bohr model energy levels (derivation using physics)	If we continue with our Bohr mode
Physical Processes	Electronic Structure	Bohr model energy levels	So in that last video, I showed you
Physical Processes	Electronic Structure	Absorption and emission	We've been talking about the Bohr
Physical Processes	Electronic Structure	Emission spectrum of hydrogen	I'm sure that most of you know the
Physical Processes	Electronic Structure	Heisenberg uncertainty principle	The Heisenberg uncertainty princ
Physical Processes	Electronic Structure	Quantum numbers	In the Bohr model of the hydrogen
Physical Processes	Electronic Structure	Quantum numbers for the first four shells	Now that we understand the four q
Physical Processes	Electronic Structure	Electron configurations for the first period	Let's look at how to write electron c
Physical Processes	Electronic Structure	Electron configurations for the second period	Let's do electron configurations for
Physical Processes	Electronic Structure	Electron configurations for the third and fourth periods	We ended the previous video with
Physical Processes	Electronic Structure	Electron configurations of the 3d transition metals	We've already looked at the elect
Physical Processes	Electronic Structure	Paramagnetism and diamagnetism	We've already seen that the allowe
Physical Processes	Periodic Table Of Elements	Electronegativity and bonding	Electronegativity is probably the m
Physical Processes	Periodic Table Of Elements	The periodic table - classification of elements	In this video, we're going to look at
Physical Processes	Periodic Table Of Elements	The periodic table - transition metals	In the last video, we saw the class
Physical Processes	Periodic Table Of Elements	Counting valence electrons for main group elements	Now that we've classified our elem
Physical Processes	Periodic Table Of Elements	Atomic and ionic radii	In this video, we're going to look at
Physical Processes	Periodic Table Of Elements	Ionization energy: group trend	Ionization energy refers to the ene
Physical Processes	Periodic Table Of Elements	Ionization energy: period trend	[Instructor] In this video, let's look a
Physical Processes	Periodic Table Of Elements	First and second ionization energy	In the previous videos we've talked
Physical Processes	Periodic Table Of Elements	Electron affinity: period trend	[Instructor] Before we get into elec
Physical Processes	Stoichiometry	Empirical formula from mass composition edited	What I want to do in this video is s

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Unit	Chapter	Video Link	Transcript
Physical Processes	Stoichiometry	Molecular and empirical formulas	We now have a respectable under
Physical Processes	Stoichiometry	The mole and Avogadro's number	[Instructor] In a previous video, we
Physical Processes	Stoichiometry	Stoichiometry example problem 1	We know that solid phosphorus wi
Physical Processes	Stoichiometry	Stoichiometry	We know what a chemical equation
Physical Processes	Stoichiometry	Limiting reactant example problem 1 edited	We're told methanol, which is used
Physical Processes	Stoichiometry	Specific gravity	[MUSIC PLAYING THROUGHOUT]
Physical Processes	Copy Of Balancing Chemical Equa	Balancing chemical equations	Balancing chemical equations is o
Physical Processes	Copy Of Balancing Chemical Equa	Balancing more complex chemical equations	Let's now see if we can balance a
Physical Processes	Copy Of Balancing Chemical Equa	Visually understanding balancing chemical equations	We've now seen a couple of exam
Physical Processes	Copy Of Balancing Chemical Equa	Balancing another combustion reaction	All right now we have another com
Physical Processes	Copy Of Balancing Chemical Equa	Balancing chemical equation with substitution	All right, let's see what's going on i
Physical Processes	Redox Reactions	Oxidizing and reducing agents	Let's see how to identify the oxidiz
Physical Processes	Redox Reactions	Disproportionation	In most redox reactions something
Physical Processes	Redox Reactions	Worked example: Balancing a redox equation in acidic solution	Our goal is to balance this redox re
Physical Processes	Redox Reactions	Worked example: Balancing a redox equation in basic solution	In the previous video, we saw how
Chemical Processes	Acid Base Equilibria	Acid-base definitions	Let's look at two definitions for acid
Chemical Processes	Acid Base Equilibria	Ka and acid strength	Let's look at this acid base reaction
Chemical Processes	Acid Base Equilibria	Autoionization of water	Water is amphoteric, which means
Chemical Processes	Acid Base Equilibria	Definition of pH	pH is defined as the negative log b
Chemical Processes	Acid Base Equilibria	Strong acids and strong bases	Here we have some strong acids v
Chemical Processes	Acid Base Equilibria	Weak acid equilibrium	We've already talked about how to
Chemical Processes	Acid Base Equilibria	Weak base equilibrium	Ammonia is a weak base, and if ar
Chemical Processes	Acid Base Equilibria	Relationship between Ka and Kb	We've already seen that NH ₄ plus
Chemical Processes	Acid Base Equilibria	Acid-base properties of salts	Let's say we have some hydrochlor
Chemical Processes	Acid Base Equilibria	pH of salt solutions	Our goal is to find the pH of differe
Chemical Processes	Acid Base Equilibria	Common ion effect and buffers	Let's say we have a solution of ac
Chemical Processes	Acid Base Equilibria	Buffer solutions	Buffer solutions resist changes in p
Chemical Processes	Acid Base Equilibria	Buffer solution pH calculations	Let's do some buffer solution calcul
Chemical Processes	Titration And Solubility Equilibria	Acid-base titrations	Titration is a procedure for determi
Chemical Processes	Titration And Solubility Equilibria	Worked example: Determining solute concentration by acid-base titration	Let's do another titration problem,
Chemical Processes	Titration And Solubility Equilibria	Titration of a strong acid with a strong base	Let's say we're doing a titration an
Chemical Processes	Titration And Solubility Equilibria	Titration of a strong acid with a strong base (continued)	We've been looking at the titration
Chemical Processes	Titration And Solubility Equilibria	Titration of a weak acid with a strong base	Here we have a titration curve for t
Chemical Processes	Titration And Solubility Equilibria	Titration of a weak acid with a strong base (continued)	We've been looking at the titration
Chemical Processes	Titration And Solubility Equilibria	Titration of a weak base with a strong acid	This time let's look at the titration c
Chemical Processes	Titration And Solubility Equilibria	Titration of a weak base with a strong acid (continued)	In the last video, we looked at the

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Unit	Chapter	Video Link	Transcript
Chemical Processes	Titration And Solubility Equilibria	Titration curves and acid-base indicators	Now that we've looked at titration c
Chemical Processes	Titration And Solubility Equilibria	Redox titrations	We've already seen how to do an a
Chemical Processes	Solubility Equilibria Mcat	Common polyatomic ions	When you take a general chemistr
Chemical Processes	Solubility Equilibria Mcat	Dissolution and precipitation	Let's say we have some solid sodi
Chemical Processes	Solubility Equilibria Mcat	Introduction to solubility and solubility product constant	There are many ionic compounds
Chemical Processes	Solubility Equilibria Mcat	Solubility from the solubility product constant	The goal is to calculate the solubili
Chemical Processes	Solubility Equilibria Mcat	Solubility and the common-ion effect	Our goal is to calculate the molar s
Chemical Processes	Solubility Equilibria Mcat	Solubility and the pH of the solution	Let's say we have a saturated solu
Chemical Processes	Solubility Equilibria Mcat	Solubility and complex ion formation	First let's calculate the molar solub
Chemical Processes	Dot Structures	Drawing dot structures	Here's some of the guidelines for c
Chemical Processes	Dot Structures	Formal charge and dot structures	The previous video, we saw some
Chemical Processes	Dot Structures	Resonance and dot structures	Now that we know how to draw do
Chemical Processes	Dot Structures	VSEPR for 2 electron clouds	This next set of videos, we're going
Chemical Processes	Dot Structures	VSEPR for 3 electron clouds	If I want to draw a dot structure for
Chemical Processes	Dot Structures	VSEPR for 4 electron clouds	Let's figure out the shape of the m
Chemical Processes	Dot Structures	VSEPR for 5 electron clouds (part 1)	Let's use VSEPR theory to predict
Chemical Processes	Dot Structures	VSEPR for 5 electron clouds (part 2)	In the previous video, we used VS
Chemical Processes	Dot Structures	VSEPR for 6 electron clouds	In this video, we're going to apply
Chemical Processes	Stereochemistry	Structural (constitutional) isomers	Let's say we're asked to draw all th
Chemical Processes	Stereochemistry	Chiral vs achiral	Achiral objects are objects that are
Chemical Processes	Stereochemistry	Stereoisomers, enantiomers, and chirality centers	Here's a screen shot from the prev
Chemical Processes	Stereochemistry	Identifying chirality centers	Once you understand the concept
Chemical Processes	Stereochemistry	R,S system	the RS system is used to describe
Chemical Processes	Stereochemistry	R,S system practice	[Instructor] Let's get some more pr
Chemical Processes	Stereochemistry	Optical activity	[Instructor] Here we have a pair of
Chemical Processes	Stereochemistry	Enantiomers and diastereomers	We've already spent a lot of time t
Chemical Processes	Stereochemistry	Cis-trans isomerism	Let's say we were asked to name t
Chemical Processes	Stereochemistry	E-Z system	If we look at the molecule on the le
Chemical Processes	Stereochemistry	Conformations of ethane	On the left, we have one way to re
Chemical Processes	Stereochemistry	Conformational analysis of butane	Here we have the butane molecule
Chemical Processes	Covalent Bonds	Electronegativity and bonding	Electronegativity is probably the m
Chemical Processes	Covalent Bonds	Intermolecular forces	In the video on electronegativity, w
Chemical Processes	Covalent Bonds	sp³ hybridization	In this video, we're going to look at
Chemical Processes	Covalent Bonds	Steric number	The concept of steric number is ve
Chemical Processes	Covalent Bonds	Molecular polarity	Now that we understand how to dr
Chemical Processes	Covalent Bonds	sp² hybridization	in an earlier video we saw that whe

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Unit	Chapter	Video Link	Transcript
Chemical Processes	Covalent Bonds	sp hybridization	The video on SP3 hybridization, w
Chemical Processes	Covalent Bonds	Worked examples: Finding the hybridization of atoms in organic molecules	Now that we understand hybridiza
Chemical Processes	Covalent Bonds	Acid-base definitions	Let's look at two definitions for ac
Chemical Processes	Separations Purifications	Simple and fractional distillations	Have you ever wondered why vodl
Chemical Processes	Separations Purifications	Extractions	Walking into a department store, y
Chemical Processes	Separations Purifications	Basics of chromatography	Have you ever scribbled something
Chemical Processes	Separations Purifications	Thin layer chromatography (TLC)	When running reactions in the orga
Chemical Processes	Separations Purifications	Calculating retention factors for TLC	remember that when you run a TL
Chemical Processes	Separations Purifications	Column chromatography	Today, we'll be talking about colum
Chemical Processes	Separations Purifications	Gas chromatography	Have you ever watched a TV show
Chemical Processes	Separations Purifications	Gel electrophoresis	Today, we'll be talking about gel el
Chemical Processes	Separations Purifications	Resolution of enantiomers	Today, we'll be talking about how t
Chemical Processes	Nucleic Acids Lipids And Carbohy	Nucleic acid structure 1	If you were to take a look at a chro
Chemical Processes	Nucleic Acids Lipids And Carbohy	Antiparallel structure of DNA strands	In the video on the molecular struc
Chemical Processes	Nucleic Acids Lipids And Carbohy	Saponification - Base promoted ester hydrolysis	Okay now, I said in a previous vide
Chemical Processes	Nucleic Acids Lipids And Carbohy	Lipids - Structure in cell membranes	Alright so in a previous video I intr
Chemical Processes	Nucleic Acids Lipids And Carbohy	Lipids as cofactors and signaling molecules	So sometimes I go for a pretty long
Chemical Processes	Nucleic Acids Lipids And Carbohy	Carbohydrates - Naming and classification	Okay, so they term carbohydrate r
Chemical Processes	Nucleic Acids Lipids And Carbohy	Fischer projections	Fischer projections are another wa
Chemical Processes	Nucleic Acids Lipids And Carbohy	Carbohydrates - Epimers, common names	We've spent a lot of time on the fr
Chemical Processes	Nucleic Acids Lipids And Carbohy	Carbohydrates - Cyclic structures and anomers	All righty, so we've been speaking
Chemical Processes	Nucleic Acids Lipids And Carbohy	Carbohydrate - Glycoside formation hydrolysis	So, the natural progression, at leas
Chemical Processes	Nucleic Acids Lipids And Carbohy	Keto-enol tautomerization (by Sal)	Let's explore another mechanism t
Chemical Processes	Nucleic Acids Lipids And Carbohy	Disaccharides and polysaccharides	All right. In a previous video, I talke
Chemical Processes	Amino Acids Peptides Proteins 5D	Central dogma of molecular biology	So what exactly is the central dogr
Chemical Processes	Amino Acids Peptides Proteins 5D	Central dogma - revisited	Hey. So you may have seen anoth
Chemical Processes	Amino Acids Peptides Proteins 5D	Amino acid structure	Hey, so we're going to be talking a
Chemical Processes	Amino Acids Peptides Proteins 5D	Peptide bonds: Formation and cleavage	Let's talk about the peptide bond. I
Chemical Processes	Amino Acids Peptides Proteins 5D	Special cases: Histidine, proline, glycine, cysteine	Hey. So welcome to the Amino Aci
Chemical Processes	Amino Acids Peptides Proteins 5D	Isoelectric point and zwitterions	Hey, so we're going to be talking a
Chemical Processes	Amino Acids Peptides Proteins 5D	Classification of amino acids	All right. So let's go through the cl
Chemical Processes	Amino Acids Peptides Proteins 5D	Four levels of protein structure	So why is it so important to learn a
Chemical Processes	Amino Acids Peptides Proteins 5D	Conformational stability: Protein folding and denaturation	Let's talk about conformational sta
Chemical Processes	Proteins	Amino acid structure	Hey, so we're going to be talking a
Chemical Processes	Proteins	Alpha amino acid synthesis	Hey. So we're going to be talking a
Chemical Processes	Proteins	Classification of amino acids	All right. So let's go through the cl

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Unit	Chapter	Video Link	Transcript
Chemical Processes	Proteins	Peptide bonds: Formation and cleavage	Let's talk about the peptide bond. I
Chemical Processes	Proteins	Four levels of protein structure	So why is it so important to learn a
Chemical Processes	Proteins	Conformational stability: Protein folding and denaturation	Let's talk about conformational sta
Chemical Processes	Proteins	Non-enzymatic protein function	So we're going to be talking about
Chemical Processes	Carbohydrates 5D	Carbohydrates- di and polysaccharides	Alright, so in a previous video I talk
Chemical Processes	Carbohydrates 5D	Carbohydrates - cyclic structures and anomers	Alrightie, so we've been speaking :
Chemical Processes	Carbohydrates 5D	Carbohydrates - absolute configuration, epimers, common names	Okay, so we spend a lot of time on
Chemical Processes	Carbohydrates 5D	Carbohydrates - naming and classification	The term 'carbohydrate' refers to a
Chemical Processes	Carbohydrates 5D	Keto-enol tautomerization (by Jay)	If you start with an aldehyde or a k
Chemical Processes	Alpha Carbon Chemistry	Keto-enol tautomerization (by Jay)	If you start with an aldehyde or a k
Chemical Processes	Alpha Carbon Chemistry	Enolate formation from aldehydes	In the last video we saw a formatic
Chemical Processes	Alpha Carbon Chemistry	Enolate formation from ketones	In order to see how to form enolate
Chemical Processes	Alpha Carbon Chemistry	Kinetic and thermodynamic enolates	We've already seen how to form ei
Chemical Processes	Alpha Carbon Chemistry	Aldol condensation	Aldol condensations are extremely
Chemical Processes	Alpha Carbon Chemistry	Mixed (crossed) aldol condensation	Lecturer: In the previous video we
Chemical Processes	Alpha Carbon Chemistry	Mixed (crossed) aldol condensation using a lithium enolate	Here's another way to do a mixed,
Chemical Processes	Alpha Carbon Chemistry	Retro-aldol and retrosynthesis	We've done a lot of aldol condensa
Chemical Processes	Alpha Carbon Chemistry	Intramolecular aldol condensation	Let's see how to approach an intra
Chemical Processes	Aldehydes And Ketones	Nomenclature of aldehydes and ketones	Let's look at how to name aldehyd
Chemical Processes	Aldehydes And Ketones	Physical properties of aldehydes and ketones	Before we get into the physical pro
Chemical Processes	Aldehydes And Ketones	Reactivity of aldehydes and ketones	Before we get into the reactivity of
Chemical Processes	Aldehydes And Ketones	Formation of hydrates	Here's an example of a nucleophili
Chemical Processes	Aldehydes And Ketones	Formation of hemiacetals and hemiketals	In the previous video, we saw how
Chemical Processes	Aldehydes And Ketones	Acid and base catalyzed formation of hydrates and hemiacetals	We've already seen how to form h
Chemical Processes	Aldehydes And Ketones	Formation of acetals	If we react an aldehyde, or a keton
Chemical Processes	Aldehydes And Ketones	Acetals as protecting groups and thioacetals	We've already seen how to form a
Chemical Processes	Aldehydes And Ketones	Formation of imines and enamines	Let's see how to form imines and e
Chemical Processes	Aldehydes And Ketones	Formation of oximes and hydrazones	In the last video we saw the mecha
Chemical Processes	Aldehydes And Ketones	Addition of carbon nucleophiles to aldehydes and ketones	We've seen a lot of nucleophilic ac
Chemical Processes	Aldehydes And Ketones	Formation of alcohols using hydride reducing agents	Let's look at the formation of alcoh
Chemical Processes	Aldehydes And Ketones	Oxidation of aldehydes using Tollens' reagent	There are several ways to oxidize
Chemical Processes	Alcohols And Phenols	Alcohol nomenclature	In this video, we'll look at the class
Chemical Processes	Alcohols And Phenols	Properties of alcohols	Let's start with physical properties
Chemical Processes	Alcohols And Phenols	Oxidation of alcohols	Let's see what happens when you
Chemical Processes	Alcohols And Phenols	Oxidation of alcohols (examples)	In the last video, we took a look at
Chemical Processes	Alcohols And Phenols	Protection of alcohols	Sometimes when you're trying to s

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Unit	Chapter	Video Link	Transcript
Chemical Processes	Alcohols And Phenols	Preparation of mesylates and tosylates	You can make mesylates and tosylates
Chemical Processes	Alcohols And Phenols	SN1 and SN2 reactions of alcohols	Let's look at a few nucleophilic substitution reactions
Chemical Processes	Alcohols And Phenols	Biological redox reactions of alcohols and phenols	In this video, we're going to look at the biological redox reactions of alcohols and phenols
Chemical Processes	Alcohols And Phenols	Aromatic stability of benzene	In this series of videos, we're going to look at the aromatic stability of benzene
Chemical Processes	Alcohols And Phenols	Aromatic heterocycles	In previous videos, we've already seen the aromatic stability of benzene
Chemical Processes	Carboxylic Acids	Carboxylic acid nomenclature and properties	Let's look at the nomenclature and properties of carboxylic acids
Chemical Processes	Carboxylic Acids	Reduction of carboxylic acids	If you add lithium aluminum hydride to a carboxylic acid, you'll get an alcohol
Chemical Processes	Carboxylic Acids	Preparation of esters via Fischer esterification	One way to make an ester is to use Fischer esterification
Chemical Processes	Carboxylic Acids	Preparation of acyl (acid) chlorides	Here's a general structure for an acyl chloride
Chemical Processes	Carboxylic Acids	Preparation of acid anhydrides	Here's another carboxylic acid derivative, an acid anhydride
Chemical Processes	Carboxylic Acids	Preparation of amides using DCC	You start with the carboxylic acid and an amine
Chemical Processes	Carboxylic Acids	Decarboxylation	Here's the dot structure for propanoic acid
Chemical Processes	Carboxylic Acids	Alpha-substitution of carboxylic acids	We'll start with a carboxylic acid that has a substituent at the alpha position
Chemical Processes	Carboxylic Acid Derivatives	Nomenclature and properties of acyl (acid) halides and acid anhydrides	Lecturer: The next few videos we're going to look at the nomenclature and properties of acyl halides and acid anhydrides
Chemical Processes	Carboxylic Acid Derivatives	Nomenclature and properties of esters	Lecturer: Esters are another kind of carboxylic acid derivative
Chemical Processes	Carboxylic Acid Derivatives	Nomenclature and properties of amides	Another carboxylic acid derivative is an amide
Chemical Processes	Carboxylic Acid Derivatives	Reactivity of carboxylic acid derivatives	Here we have a representative carboxylic acid derivative
Chemical Processes	Carboxylic Acid Derivatives	Nucleophilic acyl substitution	Let's look at the general mechanism for nucleophilic acyl substitution
Chemical Processes	Carboxylic Acid Derivatives	Acid-catalyzed ester hydrolysis	In the video on Fischer esterification, we saw that acids catalyze the reaction
Chemical Processes	Carboxylic Acid Derivatives	Acid and base-catalyzed hydrolysis of amides	We've already seen that amides are hydrolyzed by acids and bases
Chemical Processes	Carboxylic Acid Derivatives	Beta-lactam antibiotics	Lecturer: In this video we're going to look at beta-lactam antibiotics
Chemical Processes	Enzymes	Introduction to enzymes and catalysis	So today I want to talk to you about enzymes and catalysis
Chemical Processes	Enzymes	Induced fit model of enzyme catalysis	So today, I'm going to talk to you about the induced fit model of enzyme catalysis
Chemical Processes	Enzymes	Six types of enzymes	So today, we're going to talk about the six types of enzymes
Chemical Processes	Enzymes	An introduction to enzyme kinetics	So we're going to talk about enzyme kinetics
Chemical Processes	Enzymes	Allosteric regulation and feedback loops	So, today we're going to talk about allosteric regulation and feedback loops
Chemical Processes	Kinetics	Rate of reaction	The rate of a chemical reaction is a measure of how fast the reaction is going
Chemical Processes	Kinetics	Rate law and reaction order	Let's take a reaction where A plus B gives C
Chemical Processes	Kinetics	Experimental determination of rate laws	Now that we understand how to write rate laws, let's look at how to determine them experimentally
Chemical Processes	Kinetics	First-order reaction (with calculus)	Let's say we have a first order reaction
Chemical Processes	Kinetics	Plotting data for a first-order reaction	Let's see how to plot data for a first-order reaction
Chemical Processes	Kinetics	Half-life of a first-order reaction	Here we have one form of the integrated rate law for a first-order reaction
Chemical Processes	Kinetics	Plotting data for a second-order reaction	Here we have the balanced equation for a second-order reaction
Chemical Processes	Kinetics	First-order reaction example	We've already looked at the conversion of a first-order reaction
Chemical Processes	Kinetics	Second-order reaction (with calculus)	Let's say that our reaction here is second order
Chemical Processes	Kinetics	Half-life of a second-order reaction	We've already talked about the dependence of half-life on initial concentration

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Unit	Chapter	Video Link	Transcript
Chemical Processes	Kinetics	Second-order reaction example	We've seen this reaction before, th
Chemical Processes	Kinetics	Zero-order reaction (with calculus)	Let's see we have a zero order rea
Chemical Processes	Kinetics	Collision theory	To think about collision theory, let's
Chemical Processes	Kinetics	Arrhenius equation	In the last video, we talked about c
Chemical Processes	Kinetics	Forms of the Arrhenius equation	We've already seen one form of th
Chemical Processes	Kinetics	Using the Arrhenius equation	Let's see how we can use the Arrh
Chemical Processes	Kinetics	Elementary rate laws	Let's say we have a simple elemer
Chemical Processes	Kinetics	Mechanisms and the rate-determining step	A mechanism is the sequence of e
Chemical Processes	Kinetics	Catalysts	A catalyst is a substance that incre
Chemical Processes	Kinetics	Kinetic and thermodynamic enolates	We've already seen how to form ei
Chemical Processes	Equilibrium Mcat	Reactions in equilibrium	All of the reactions we've looked at
Chemical Processes	Equilibrium Mcat	Le Chatelier's principle	Let's say we had the reaction mole
Chemical Processes	Equilibrium Mcat	Changes in free energy and the reaction quotient	The relationship between the chan
Chemical Processes	Equilibrium Mcat	Standard change in free energy and the equilibrium constant	In the previous video, we looked at
Chemical Processes	Equilibrium Mcat	Galvanic cells and changes in free energy	We already know that for this galva
Chemical Processes	Bioenergetics	An analogy for Gibbs free energy	So in this video I want to go ahead
Chemical Processes	Bioenergetics	Bioenergetics: The transformation of free energy in living systems	I want you to be silent for like thre
Chemical Processes	Bioenergetics	Why we need metabolism?	when I think about metabolism I th
Chemical Processes	Bioenergetics	Insulin and glucagon	Metabolism is just the flow of ener
Chemical Processes	Bioenergetics	Tissue specific metabolism and the metabolic states	When I look at this image, I'm not c
Chemical Processes	Thermodynamics Mcat	Specific heat and latent heat of fusion and vaporization	Let's talk about specific heat and t
Chemical Processes	Thermodynamics Mcat	Zeroth law of thermodynamics	Let's talk about the 0th Law of The
Chemical Processes	Thermodynamics Mcat	First law of thermodynamics	What are the different kinds of ene
Chemical Processes	Thermodynamics Mcat	First law of thermodynamics problem solving	So far you've seen the First Law of
Chemical Processes	Thermodynamics Mcat	PV diagrams - part 1: Work and isobaric processes	Something you see a lot when doi
Chemical Processes	Thermodynamics Mcat	PV diagrams - part 2: Isothermal, isometric, adiabatic processes	All right, so last time we talked abo
Chemical Processes	Thermodynamics Mcat	Second law of thermodynamics	Let's talk about the Second Law of
Chemical Processes	Thermochemistry	Phase diagrams	All of the phase changes we've be
Chemical Processes	Thermochemistry	Enthalpy	Let me draw a good old PV diagra
Chemical Processes	Thermochemistry	Heat of formation	We saw in the last video that if we
Chemical Processes	Thermochemistry	Hess's law and reaction enthalpy change	Now that we know a little bit about
Chemical Processes	Thermochemistry	Gibbs free energy and spontaneity	We've learned over the last severa
Chemical Processes	Thermochemistry	Gibbs free energy example	I have this reaction here where if I
Chemical Processes	Thermochemistry	More rigorous Gibbs free energy / spontaneity relationship	I've hopefully given you a bit of a g
Chemical Processes	Thermochemistry	A look at a seductive but wrong Gibbs spontaneity proof	In the video that I just did, where I
Processing The Environment	Sensory Perception	Visual cues	How is perception organized? Wel

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Unit	Chapter	Video Link	Transcript
Processing The Environment	Sensory Perception	Sensory adaptation	In this video we're going to talk about
Processing The Environment	Sensory Perception	Weber's law and thresholds	Imagine that we've got your arm h
Processing The Environment	Sensory Perception	Absolute threshold of sensation	The absolute threshold of sensatio
Processing The Environment	Sensory Perception	Somatosensation	In this video, we are going to talk a
Processing The Environment	Sensory Perception	The vestibular system, balance, and dizziness	If I asked you to list your senses, y
Processing The Environment	Sensory Perception	Signal detection theory - part 1	In this video, I'm going to be talking
Processing The Environment	Sensory Perception	Signal detection theory - part 2	For any certain task, what we're go
Processing The Environment	Sensory Perception	Bottom-up vs. top-down processing	Let's look at the difference betwee
Processing The Environment	Sensory Perception	Gestalt principles	Imagine that you're sitting at home
Processing The Environment	Sight	The structure of the eye	In this video, we're going to talk ab
Processing The Environment	Sight	Visual sensory information	Today is sensation. And specificall
Processing The Environment	Sight	The phototransduction cascade	Last video, we looked at how light
Processing The Environment	Sight	Photoreceptors (rods vs cones)	Let's examine the difference betwe
Processing The Environment	Sight	Photoreceptor distribution in the fovea	Let's look at how rods and cones a
Processing The Environment	Sight	Visual field processing	In this video, we're going to talk ab
Processing The Environment	Sight	Feature detection and parallel processing	When you're looking at an object, i
Processing The Environment	Sound Audition	Auditory structure - part 1	In this video, we're gonna talk abo
Processing The Environment	Sound Audition	Auditory structure - part 2	Okay, so now let's take a closer lo
Processing The Environment	Sound Audition	Auditory processing	In order to distinguish between the
Processing The Environment	Sound Audition	Cochlear implants	In this video, we're gonna talk abo
Processing The Environment	Somatosensation	Somatosensation	In this video, we are going to talk a
Processing The Environment	Somatosensation	Sensory adaptation and amplification	What is sensory adaptation versus
Processing The Environment	Somatosensation	Somatosensory homunculus	If you've ever used a map on your
Processing The Environment	Somatosensation	Proprioception and kinesthesia	Imagine if it was pitch black in you
Processing The Environment	Somatosensation	Pain and temperature	So two senses that are extremely i
Processing The Environment	Taste Gustation And Smell Olfaction	Pheromones	At some point in time, you've seen
Processing The Environment	Taste Gustation And Smell Olfaction	Olfaction - structure and function	you're probably notice that whenev
Processing The Environment	Taste Gustation And Smell Olfaction	Gustation - structure and function	We have 5 main tastes. Each taste
Processing The Environment	Sleep And Consciousness	States of consciousness	What is consciousness? Well that's
Processing The Environment	Sleep And Consciousness	Sleep stages and circadian rhythms	Even though you're not conscious
Processing The Environment	Sleep And Consciousness	Dreaming	Do you remember your last dream
Processing The Environment	Sleep And Consciousness	Dream theories Freud, activation synthesis hypothesis	Let's look at our gentleman in the r
Processing The Environment	Sleep And Consciousness	Sleep disorders	I'm sure we've all had trouble sleep
Processing The Environment	Sleep And Consciousness	Breathing related sleep disorders	When we think about breathing pro
Processing The Environment	Sleep And Consciousness	Hypnosis and meditation	So far in this tutorial, we've talked
Processing The Environment	Drug Dependence	Overview of psychoactive drugs	Psychoactive drugs are drugs that

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Unit	Chapter	Video Link	Transcript
Processing The Environment	Drug Dependence	Psychoactive drugs: Depressants and opiates	Your consciousness is your aware
Processing The Environment	Drug Dependence	Psychoactive drugs: Stimulants	We talked about depressants, whic
Processing The Environment	Drug Dependence	Psychoactive drugs: Hallucinogens	Okay, last type of psychoactive dru
Processing The Environment	Drug Dependence	Drug dependence and homeostasis	Even when you're resting, your bra
Processing The Environment	Drug Dependence	Routes of drug entry	Although there are surprisingly hig
Processing The Environment	Drug Dependence	Reward pathway in the brain	Think about a time when you felt h
Processing The Environment	Drug Dependence	Tolerance and withdrawal	So, in the previous video, we talke
Processing The Environment	Drug Dependence	Substance use disorders	Let's consider drugs. I'm also goin
Processing The Environment	Drug Dependence	Treatments and triggers for drug dependence	Drug addiction is a medical proble
Processing The Environment	Attention Language	Divided attention, selective attention, inattentional blindness, & change blindness	All right. I'm going to start out with
Processing The Environment	Attention Language	Theories of selective attention	We already know that attention is a
Processing The Environment	Attention Language	The spotlight model of attention and our ability to multitask	When we talk about selective atter
Processing The Environment	Memory	Information processing model: Sensory, working, and long term memory	Take a second to think about every
Processing The Environment	Memory	Encoding strategies	Take a moment and try to rememb
Processing The Environment	Memory	Retrieval cues	So anytime you call up a memory c
Processing The Environment	Memory	Retrieval: Free recall, cued recall, and recognition	We are going to start out with a tes
Processing The Environment	Memory	Memory reconstruction, source monitoring, and emotional memories	One interesting thing we know abo
Processing The Environment	Memory	Long term potentiation and synaptic plasticity	How do you learn? This is a tough
Processing The Environment	Memory	Decay and interference	We all know that our memories are
Processing The Environment	Memory	Aging and cognitive abilities	Aging is a natural process, and wit
Processing The Environment	Memory	Alzheimer's disease and Korsakoff's syndrome	Although everybody forgets, exces
Processing The Environment	Memory	Semantic networks and spreading activation	[Instructor] In order to solve proble
Processing The Environment	Cognition	Piaget's stages of cognitive development	[Instructor] A long time ago, people
Processing The Environment	Cognition	Schemas, assimilation, and accommodation	According to Piaget, all of us, ever
Processing The Environment	Cognition	Problem solving	What's the best route to your new
Processing The Environment	Cognition	Decision making	[Lecturer] What do you think is mo
Processing The Environment	Cognition	Semantic networks and spreading activation	[Instructor] In order to solve proble
Processing The Environment	Cognition	Intelligence	[Lecturer] You've probably heard o
Processing The Environment	Cognition	Theories of intelligence	[Instructor] There are a number of
Processing The Environment	Cognition	Aging and cognitive abilities	[Instructor] Aging is a natural proce
Processing The Environment	Cognition	Cognitive dissonance	So we talked about, in our previous
Processing The Environment	Cognition	Information processing model: Sensory, working, and long term memory	Take a second to think about every
Processing The Environment	Language	Language and the brain: Aphasia and split-brain patients	You may perceive language as one
Processing The Environment	Language	Theories of language and cognition	If you've ever learned another lang
Processing The Environment	Language	Theories of language development: Nativist, learning, interactionist	So this might surprise you, but one
Processing The Environment	Emotion	Emotions: limbic system	So let's talk about the limbic syste

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Unit	Chapter	Video Link	Transcript
Processing The Environment	Emotion	Emotions: cerebral hemispheres and prefrontal cortex	So what we have here is a brain. A
Processing The Environment	Emotion	Autonomic nervous system (ANS) and physiologic markers of emotion	So if you've ever ridden a roller co
Processing The Environment	Emotion	Three components of emotion and the universal emotions	So let's talk about a topic importan
Processing The Environment	Emotion	Theories of Emotion	So let's continue our discussion of
Processing The Environment	Stress	What is stress?	[Instructor] Although I enjoy cats, I
Processing The Environment	Stress	Stressors	Okay so in a previous video, I talk
Processing The Environment	Stress	Responding to stress	[Instructor] Walter Cannon was an
Processing The Environment	Stress	Physical effects of stress	Your heart is actually a lot like the
Processing The Environment	Stress	Behavioral effects of stress	Okay, so current literature suggest
Processing The Environment	Stress	Stress management	[Instructor] Okay, so in this video, I
Behavior	Biological Basis Of Behavior Ner	Structure of the nervous system	In this video I'm going to introduce
Behavior	Biological Basis Of Behavior Ner	Functions of the nervous system	In this video, I'm going to talk abou
Behavior	Biological Basis Of Behavior Ner	Motor unit	In this video I'm going to talk abou
Behavior	Biological Basis Of Behavior Ner	Peripheral somatosensation	In this video, I'm going to talk abou
Behavior	Biological Basis Of Behavior Ner	Muscle stretch reflex	In this video, I'm gonna talk about t
Behavior	Biological Basis Of Behavior Ner	Autonomic nervous system	In this video, I want to introduce th
Behavior	Biological Basis Of Behavior Ner	Gray and white matter	In this video, I'm gonna talk about t
Behavior	Biological Basis Of Behavior Ner	Upper motor neurons	In this video I'm going to talk about
Behavior	Biological Basis Of Behavior Ner	Somatosensory tracts	In this video, I'm going to talk abou
Behavior	Biological Basis Of Behavior Ner	Overview of the functions of the cerebral cortex	What I've drawn for you here is the
Behavior	Biological Basis Of Behavior Ner	Hemispheric differences and hemispheric dominance	Here I have something that looks l
Behavior	Biological Basis Of Behavior Ner	The old brain	Here I have two pictures of the bra
Behavior	Biological Basis Of Behavior Ner	Cerebellum	In this video, I'm going to talk abou
Behavior	Biological Basis Of Behavior Ner	Brainstem	In this video, I'm going to talk abou
Behavior	Biological Basis Of Behavior Ner	Subcortical cerebrum	In this video, I'm going to talk abou
Behavior	Biological Basis Of Behavior Ner	Cerebral cortex	In this video, I'm going to talk abou
Behavior	Biological Basis Of Behavior Ner	Neurotransmitter anatomy	In this video I want to just introduc
Behavior	Biological Basis Of Behavior Ner	Early methods of studying the brain	Over the years, there have been m
Behavior	Biological Basis Of Behavior Ner	Lesion studies and experimental ablation	Ablation studies, or experimental a
Behavior	Biological Basis Of Behavior Ner	Modern ways of studying the brain	Today we have many different way
Behavior	Biological Basis Of Behavior Ner	Endocrine system and influence on behavior - Part 1	I want you to imagine with me that
Behavior	Biological Basis Of Behavior Ner	Endocrine system and influence on behavior - Part 2	And so we've kind of got an idea n
Behavior	Human Development	Egg, sperm, and fertilization	organisms that reproduce sexually
Behavior	Human Development	Early embryogenesis - Cleavage, blastulation, gastrulation, and neurulation	We're gonna talk about early embr
Behavior	Human Development	Implantation	So it's been about a week since yc
Behavior	Human Development	Germ layer derivatives	Now if you'll remember from near t

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Unit	Chapter	Video Link	Transcript
Behavior	Human Development	Gestation	Gestation is a term that most people
Behavior	Human Development	Major motor milestones	[Instructor] One thing that I find really
Behavior	Human Development	Motor development	[Instructor] I want to talk about motor
Behavior	Human Development	Neonatal reflexes	[Female Narrator] It might surprise
Behavior	Human Development	Physical development in adolescence	[Instructor] When we talk about adolescence
Behavior	Human Development	Brain changes during adolescence	when we think about changes that
Behavior	Behavior And Genetics	Temperament, heredity, and genes	All right. So here we have three basic
Behavior	Behavior And Genetics	Twin studies and adoption studies	Two types of studies that are very
Behavior	Behavior And Genetics	Heritability	OK. So I ended the last video, the
Behavior	Behavior And Genetics	Regulatory genes	OK, so as scientists and as psychologists
Behavior	Behavior And Genetics	Gene environment interaction	So the past videos of this series have
Behavior	Behavior And Genetics	Adaptive value of behavioral traits	OK. So far we've spent a lot of our
Behavior	Physiological And Sociocultural Context	Physiological concept of positive and negative feedback	In this video we're going to explore
Behavior	Physiological And Sociocultural Context	Instincts, Arousal, Needs, Drives: Drive-Reduction and Cognitive Theories	So, complex human experiences in
Behavior	Physiological And Sociocultural Context	Maslow's hierarchy of needs	Building off the five approaches in
Behavior	Physiological And Sociocultural Context	Incentive theory	In this video, I'm going to talk about
Behavior	Physiological And Sociocultural Context	Biological and Sociocultural Factors Food, Sex, and Drugs	So there are many factors that affect
Behavior	Physiological And Sociocultural Context	Components of attitudes	So what do you think of when you
Behavior	Physiological And Sociocultural Context	Attitude influences behavior	All right, let's take a look at a question
Behavior	Physiological And Sociocultural Context	Behavior influences attitude	So in the last video we talked about
Behavior	Physiological And Sociocultural Context	Cognitive dissonance	So we talked about, in our previous
Behavior	Physiological And Sociocultural Context	Situational approach	So we're gonna take a look at a broader
Behavior	Theories Personality	Situational approach	So we're gonna take a look at a broader
Behavior	Theories Personality	Psychoanalytic theory	All right. So let's dive into the first
Behavior	Theories Personality	Maslow's hierarchy of needs	So we talked about before that the
Behavior	Theories Personality	Humanistic theory	All right. Let's talk about another
Behavior	Theories Personality	Biological theory	All right. Let's talk about yet another
Behavior	Theories Personality	Behavioral theory	All right, the behavioral theory is
Behavior	Theories Personality	Trait theory	Hi, everyone. Welcome back. We're
Behavior	Theories Personality	Observational learning: Bobo doll experiment and social cognitive theory	So it's kind of common sense that
Behavior	Theories Personality	Defense mechanisms	Defense mechanisms are ways of
Behavior	Theories Personality	Freud - Death drive, reality principle, and pleasure principle	When you were young and you saw
Behavior	Psychological Disorders	Introduction to mental disorders	In this video, I want to introduce
Behavior	Psychological Disorders	Categories of mental disorders	In this video I want to talk briefly
Behavior	Psychological Disorders	Schizophrenia	[Instructor] Schizophrenia is a
Behavior	Psychological Disorders	Biological basis of schizophrenia	In this video I'm going to talk about

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Unit	Chapter	Video Link	Transcript
Behavior	Psychological Disorders	Biological basis of depression	In this video I'm going to talk about
Behavior	Psychological Disorders	Anxiety disorders and obsessive compulsive disorder	[Lecturer] While we have all felt an
Behavior	Psychological Disorders	Dissociative identity disorder	[Instructor] Dissociative Identity Di
Behavior	Psychological Disorders	Somatic symptom disorder and other disorders	We know that medical conditions c
Behavior	Psychological Disorders	Personality disorders	everybody has a personality and p
Behavior	Psychological Disorders	Sleep disorders	I'm sure we've all had trouble slee
Behavior	Psychological Disorders	Sleep wake disorders breathing related sleep disorders	[Instructor] When we think about b
Behavior	Psychological Disorders	Reward pathway in the brain	Think about a time when you felt h
Behavior	Psychological Disorders	Drug dependence and homeostasis	Even when you're resting, your bra
Behavior	Psychological Disorders	Tolerance and withdrawal	So, in the previous video, we talke
Behavior	Psychological Disorders	Substance use disorders	[Instructor] Let's consider drugs. I'r
Behavior	Psychological Disorders	Biological basis of parkinson's disease	In this video, I'm going to talk abou
Behavior	Psychological Disorders	Depression and major depressive disorder	[Instructor] Major depressive disor
Behavior	Psychological Disorders	Depression and bipolar disorder	[Instructor] One disorder that is ve
Behavior	Social Psychology	Conformity and groupthink	So Social Psychology is the study
Behavior	Social Psychology	Conformity and obedience	I want to start off by talking about t
Behavior	Social Psychology	Asch conformity studies (Asch line studies)	One of the most famous experimen
Behavior	Social Psychology	Events that inspired the Milgram studies on obedience	One of the most famous series of s
Behavior	Social Psychology	Milgram experiment on obedience	The Milgram studies were conduct
Behavior	Social Psychology	What can we learn from the Milgram experiment	The Milgram Study is one of the m
Behavior	Social Psychology	Zimbardo prison study The Stanford prison experiment	The last of the three famous studie
Behavior	Social Psychology	A closer look at the Stanford prison experiment	I want to take a moment to talk a li
Behavior	Social Psychology	Factors that influence obedience and conformity	You might be wondering whether t
Behavior	Social Psychology	Bystander effect	Imagine you're in a huge crowd of
Behavior	Social Psychology	Social facilitation and social loafing	Imagine you're in front of a group c
Behavior	Social Psychology	Agents of socialization	Have you ever wondered how you
Behavior	Normative And Non Normative Bel	What is normal? Exploring folkways, mores, and taboos	psychologists and sociologists stu
Behavior	Normative And Non Normative Bel	Perspectives on deviance: Differential association, labeling theory, and strain theory	In the last video, we defined norms
Behavior	Normative And Non Normative Bel	Aspects of Collective Behavior: Fads, Mass Hysteria, and Riots	In our last few videos, we discusse
Behavior	Learning Slug	Classical conditioning: Neutral, conditioned, and unconditioned stimuli and responses	So I have a pet guinea pig. And he
Behavior	Learning Slug	Classical conditioning: Extinction, spontaneous recovery, generalization, discrimination	We've talked about how my guinea
Behavior	Learning Slug	Operant conditioning: Positive-and-negative reinforcement and punishment	So in the previous videos, we talke
Behavior	Learning Slug	Operant conditioning: Shaping	If someone were to say I want to le
Behavior	Learning Slug	Operant conditioning: Schedules of reinforcement	Many of our behaviors are on a pa
Behavior	Learning Slug	Operant conditioning: Innate vs learned behaviors	Innate behaviors, also known as in
Behavior	Learning Slug	Operant conditioning: Escape and avoidance learning	So the topic today is about escape

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Unit	Chapter	Video Link	Transcript
Behavior	Learning Slug	Observational learning: Bobo doll experiment and social cognitive theory	So it's kind of common sense that
Behavior	Learning Slug	Long term potentiation and synaptic plasticity	How do you learn? This is a tough
Behavior	Learning Slug	Non associative learning	Okay, let's draw a graph. Let's look
Behavior	Learning Slug	Biological constraints on learning	[Lecturer] Researchers initially tho
Behavior	Theories Of Attitude And Behavior	Components of attitudes	So what do you think of when you
Behavior	Theories Of Attitude And Behavior	Attitude influences behavior	All right, let's take a look at a ques
Behavior	Theories Of Attitude And Behavior	Behavior influences attitude	So in the last video we talked abou
Behavior	Theories Of Attitude And Behavior	Persuasion, attitude change, and the elaboration likelihood model	Imagine that you are in school, and
Behavior	Theories Of Attitude And Behavior	Reciprocal determinism	Socialcognitive perspectives view
Behavior	Theories Of Attitude And Behavior	Locus of control, learned helplessness, and the tyranny of choice	An important element of social cog
Behavior	Theories Of Attitude And Behavior	Self control	One aspect about ourselves that h
Individuals And Society	Self Identity	Self concept, self identity, and social identity	Hi everyone, okay, so in the next s
Individuals And Society	Self Identity	Self esteem, self efficacy, and locus of control	Hi everyone, welcome back. So in
Individuals And Society	Self Identity	Overview of theories of development	Okay so you're probably looking at
Individuals And Society	Self Identity	Freud's psychosexual development	Alright, let's dive right in to our first
Individuals And Society	Self Identity	Erikson's psychosocial development	Now it's time to take a look at Erik
Individuals And Society	Self Identity	Vygotsky sociocultural development	All right, the next theory that we're
Individuals And Society	Self Identity	Kohlberg moral development	Let's take a look at Laurence Kohl
Individuals And Society	Self Identity	Social influences	All right, let's dive right into the las
Individuals And Society	Self Identity	George Herbert Mead- The I and the Me	Sociologists, Charles Cooley and C
Individuals And Society	Self Identity	Charles Cooley- Looking glass self	Socialization describes the proces
Individuals And Society	Perception Prejudice And Bias	Attribution Theory - Basic covariation	So how do we go about trying to e
Individuals And Society	Perception Prejudice And Bias	Attribution theory - Attribution error and culture	How do we understand someone's
Individuals And Society	Perception Prejudice And Bias	Stereotypes stereotype threat and self fulfilling prophecies	Okay, so what do you think about p
Individuals And Society	Perception Prejudice And Bias	Emotion and cognition in prejudice	[Voicover] Prejudice is made up of
Individuals And Society	Perception Prejudice And Bias	Prejudice and discrimination based on race, ethnicity, power, social class, and prestige	Normally when we talk about preju
Individuals And Society	Perception Prejudice And Bias	Stigma - Social and self	Social stigma is the really extreme
Individuals And Society	Perception Prejudice And Bias	Social perception - Primacy recency	I'm sure you've heard of the term f
Individuals And Society	Perception Prejudice And Bias	Social perception - The Halo Effect	Did you ever have a kid in class th
Individuals And Society	Perception Prejudice And Bias	Social perception - The Just World Hypothesis	So have you heard of the phrase, '
Individuals And Society	Perception Prejudice And Bias	Ethnocentrism and cultural relativism in group and out group	Okay, so you go over to a friend's l
Individuals And Society	Attributing Behavior To Persons Or	Self esteem, self efficacy, and locus of control	Hi everyone, welcome back. So in
Individuals And Society	Attributing Behavior To Persons Or	Self concept, self identity, and social identity	Hi everyone, okay, so in the next s
Individuals And Society	Attributing Behavior To Persons Or	Social influences	All right, let's dive right into the las
Individuals And Society	Attributing Behavior To Persons Or	Locus of control, learned helplessness, and the tyranny of choice	An important element of social cog
Individuals And Society	Social Behavior	Proximity and the mere exposure effect	Even today, in our ultraconnected

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Unit	Chapter	Video Link	Transcript
Individuals And Society	Social Behavior	Physical attraction	When trying to figure out what attr
Individuals And Society	Social Behavior	Similarity	Let's say that this is you and that t
Individuals And Society	Social Behavior	Harlow monkey experiments	if you've ever been around young c
Individuals And Society	Social Behavior	Secure and insecure attachment	Really young babies are happy to
Individuals And Society	Social Behavior	Aggression	Psychologists define aggression a
Individuals And Society	Social Behavior	Altruism	I have three different images here,
Individuals And Society	Social Behavior	Social support	Let's say that you had a really bad
Individuals And Society	Social Interactions	Status	Status is a social position in societ
Individuals And Society	Social Interactions	Role strain and role conflict	(Voiceover) Most people have face
Individuals And Society	Social Interactions	Primary and secondary groups	Each of us belongs to several type
Individuals And Society	Social Interactions	Ethnocentrism and cultural relativism in group and out group	Okay, so you go over to a friend's l
Individuals And Society	Social Interactions	Dramaturgical approach	Erving Goffman was a famous soc
Individuals And Society	Social Interactions	Impression management	The dramaturgical approach is bro
Individuals And Society	Social Interactions	Aggression	Psychologists define aggression a
Individuals And Society	Social Interactions	Harlow monkey experiments	if you've ever been around young c
Individuals And Society	Social Interactions	Altruism	I have three different images here,
Individuals And Society	Social Interactions	Discrimination individual vs institutional	Discrimination is differential treatm
Individuals And Society	Social Interactions	Prejudice vs discrimination	What is prejudice? Prejudice is sin
Individuals And Society	Social Interactions	Prejudice and discrimination based on race, ethnicity, power, social class, and prestige	Normally when we talk about preju
Individuals And Society	Social Interactions	Organizations and bureaucratization	Although we might not realize it or
Individuals And Society	Social Interactions	Characteristics of an ideal bureaucracy	Sociologist, Max Weber, studied th
Individuals And Society	Social Interactions	Social support	Let's say that you had a really bad
Individuals And Society	Self Presentation And Interacting V	Charles Cooley- Looking glass self	Socialization describes the proces
Individuals And Society	Self Presentation And Interacting V	George Herbert Mead- The I and the Me	Sociologists, Charles Cooley and C
Individuals And Society	Self Presentation And Interacting V	Three components of emotion and universal emotions	So let's talk about a topic importan
Individuals And Society	Biological Explanations Of Social E	Animal behavior: foraging	One of the most important animal l
Individuals And Society	Biological Explanations Of Social E	Animal communication	When humans communicate with c
Individuals And Society	Biological Explanations Of Social E	Types of animal communication	So let's talk a little bit about types c
Individuals And Society	Biological Explanations Of Social E	Mating behavior and inclusive fitness	Mating is the pairing of opposite se
Individuals And Society	Biological Explanations Of Social E	Evolutionary game theory	Game theory is usually talked abo
Individuals And Society	Discrimination	Discrimination individual vs institutional	Discrimination is differential treatm
Individuals And Society	Discrimination	Prejudice and discrimination based on race, ethnicity, power, social class, and prestige	Normally when we talk about preju
Individuals And Society	Discrimination	Stereotypes stereotype threat, and self fulfilling prophecy	Okay, so what do you think about p
Society And Culture	Social Structures	Macrosociology vs microsociology	Macrosociology and microsociolog
Society And Culture	Social Structures	Social institutions	Institutions are essential parts of a
Society And Culture	Social Structures	Social institutions - education, family, and religion	We've heard in general about insti

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Unit	Chapter	Video Link	Transcript
Society And Culture	Social Structures	Social institutions - government, economy, health and medicine	Now that we've examined education
Society And Culture	Social Structures	Functionalism	Functionalism is a system of thinki
Society And Culture	Social Structures	Conflict theory	Conflict theory is a way of studying
Society And Culture	Social Structures	Social constructionism	I'm sure everyone has thought at s
Society And Culture	Social Structures	Symbolic interactionism	Symbolic interactionism takes a sn
Society And Culture	Social Structures	Rational choice-exchange theory	All right, so here we are going to ta
Society And Culture	Social Structures	Social theories overview (part 1)	I know all these social theories car
Society And Culture	Social Structures	Social theories overview (part 2)	Alright. Here is part two of our soci
Society And Culture	Social Structures	Relating social theories to medicine	When you step back and look at th
Society And Culture	Demographics	Demographic structure of society - age	Let's take a quick look at the demc
Society And Culture	Demographics	Demographic structure of society - race and ethnicity	Voiceover: There are many inequal
Society And Culture	Demographics	Demographic structure of society - immigration	Immigrants often face severe chall
Society And Culture	Demographics	Demographic structure of society - sex, gender, and sexual orientation	Sex, gender and sexual orientatio
Society And Culture	Demographics	Demographic structure of society overview	There's a lot to consider when look
Society And Culture	Demographics	Urbanization	In it's simplest sense, urbanization
Society And Culture	Demographics	Population dynamics	Population dynamics looks at how
Society And Culture	Demographics	Demographic transition	Demographic transition is a model
Society And Culture	Demographics	Globalization theories	Voice over: Alright, let's take a look
Society And Culture	Demographics	Globalization- trade and transnational corporations	Today we live in a global communi
Society And Culture	Demographics	Social movements	Social movements are instrumenta
Society And Culture	Demographics	Overview of demographics	We've spent plenty of time learning
Society And Culture	Culture	Culture and society	Culture's a way of life shared by a
Society And Culture	Culture	Overview of culture	society is a group of people and cu
Society And Culture	Culture	Subculture vs counterculture	A subculture is the culture of a me
Society And Culture	Culture	Jim goes to college subculture	A national society is a population c
Society And Culture	Culture	Culture lag and culture shock	The term "culture lag" refers to the
Society And Culture	Culture	Diffusion	Diffusion is the spread of an invent
Society And Culture	Culture	Mass media	What exactly are we talking about
Society And Culture	Culture	Evolution and human culture	When sociologists talk about cultur
Social Inequality	Social Class	Overview of social inequality	Okay, let's talk about social inequa
Social Inequality	Social Class	Upward and downward mobility, meritocracy	So, in our society we have quite a
Social Inequality	Social Class	Intergenerational and intragenerational mobility social mobility	Hello, I want you to meet this wonc
Social Inequality	Social Class	Absolute and relative poverty	There are two different ways that v
Social Inequality	Social Class	Social reproduction	There remains a huge amount of s
Social Inequality	Social Class	Social exclusion (segregation and social isolation)	Being an integral member of our s
Social Inequality	Social Class	Environmental justice	Where we live in society plays a h

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[Khan Academy MCAT Videos \(Drive folder in case KA takes them down from Youtube\)](#)

Unit	Chapter	Video Link	Transcript
Social Inequality	Social Class	Residential segregation	All right so let's talk a little bit about
Social Inequality	Social Class	Global inequality	The world is an unequal place. Let
Social Inequality	Social Class	Prejudice and discrimination based on race, ethnicity, power, social class, and prestige	Normally when we talk about preju
Social Inequality	Social Class	Health and healthcare disparities in the US	When we talk about health and he
Social Inequality	Social Class	Intersectionality	There are many different types of c
Social Inequality	Social Class	Class consciousness and false consciousness	Let's draw some factories and nex