

NIDA CORPORATION COMPUTER ASSISTED INSTRUCTION

LESSON AND OBJECTIVE LISTING

Master Course Listing Science

2018-08-30





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MOD 88 - PHYSICS	1
THEORY - CHEMISTRY	
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LESSON ID/TITLE CARDS/KITS

MOD 88 - PHYSI	ICS	
	130 Introduction to Physics	
	physics.	
	y the three states of matter.	
	be the characteristics of each state.	
 Descri 	be how matter can change from one state to another.	
	160 Measurement	
	be the purpose of measurements.	
	be the different types of measurements used by scientists.	
	be the measurements for length, area, and volume.	
 Descri 	be the measurements for mass and density.	
Descri	be the measurements for time.	
3011-212-	190 Force	
Define	force and torque.	
■ Use ve	ectors to represent forces and find resultant forces.	
Define	equilibrium of force.	
Discus	ss Newton's Law of Gravitation.	
	center of gravity.	
3011-212-	220 Motion	
Define		
Define	and calculate velocity and acceleration.	
Discus	ss Newton's Laws of motion.	
Define	the acceleration due to gravity.	
	250 Work and Energy	
	work and energy.	
	ate the work done on an object.	
	potential and kinetic energy.	
Define	·	
	be machines.	
	280 Heat	
	heat and temperature.	
	be temperature scales and measurement.	
	be expansion and contraction.	
	es heat transfer by conduction, convection, and radiation.	
	310 Sound and Acoustics	
	be sound waves.	
	be sound wavelength, frequency, and pitch.	
	be the Doppler effect.	
	sound intensity.	
	340 Light	
■ Define		
	be sources of light. be reflection and refraction.	
	be measurement of light.	
	370 Magnetism	_
	magnetism.	
	be different types of magnetism.	
• Descri	be relays, motors, and transformers.	

LESSON ID/TITLE CARDS/KITS

MOD 88 - PHYSICS (cont.)	
3011-212-370 Magnetism (cont.)	
Describe generators.	
3011-212-920 Physics Post-Test (Theory)	
MOD 89 - CHEMISTRY	
3011-112-130 Introduction to Chemistry	
Define chemistry.	
 Describe the history of chemistry. 	
 Recognize chemistry's impact on everyday life. 	
3011-112-160 Matter and Energy	
 Define Matter and Energy. 	
 Name the three states of matter. 	
 Distinguish classes of matter. 	
 Differentiate between physical changes and chemical reactions. 	
3011-112-190 The Periodic Table	
 Recognize the periodic table. 	
 Understand the structure of the periodic table. 	
 Identify Groups and Periods. 	
 Relate various element names to their corresponding chemical symbol. 	
 Describe some properties that are common to elements located in the same groups on the periodic table. 	
3011-112-220 Solids, Liquids, and Gases	
 Identify the three physical states of matter. 	
 Define the properties of the three states of matter. 	
 Understand how matter changes from one state to another. 	
3011-112-250 Atomic Structure	
 Describe the structure of the atom. 	
 Understand how atomic structure gives rise to the chemical properties of the elements. 	
3011-112-280 Bonding	
 Understand the process of atomic bonding. 	
 Distinguish the types of chemical bonds. 	
 Use the electron dot structure to represent chemical compounds. 	
3011-112-310 Chemical Quantities	
Identify the units of measure used in chemistry.	
 Recognize the correct units to use in various chemical calculations. 	
 Use dimensional analysis for converting chemical quantities and verifying correctness of chemical calculations. 	
3011-112-340 Chemical Names	
 Understand and apply standard conventions for naming inorganic chemical compounds. 	
3011-112-370 Chemical Reactions	
 Identify different types and classes of chemical reactions. 	
 Understand the basic mechanisms of chemical reactions. 	
 Recognize the role of chemical reactions in our day-to-day lives. 	
3011-112-400 Applications of Chemistry	
 Identify the impact of some different fields of chemical science on the world today. 	

LESSON ID/TITLE	CARDS/KITS
MOD 89 - CHEMISTRY (cont.)	
3011-112-920 Chemistry Post-Test (Theory)	





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