

**MULTIMEDIA MATERIALS FOR PHYSICS 110-120**

The Dolciani Math Center (7th Floor Hunter East) has multi-media materials for the following topics in PHYSICS 110-120. Bring your ID card to the Learning Center and ask for the lesson by the call number below. If there is more than one number listed, there are several alternatives for the lesson. You may pick and choose which works best for you. These are also materials available on computer using software called PLATO.

<b>Topic</b>	<b>SITUATIONAL DVDs</b>	<b>TUTORIAL DVDs</b>	<b>PLATO AVAILABLE:</b>
Scientific Notation		S-1, V-6	Scientific Notation
Operations with Scientific Notation		V-6	Scientific Notation
Metric System		Y-7	Measurement: Metric System and Standard System
Conversions with Units of Measure		Y-7	Measurement: Metric System and Standard System
Converting Fractions, Decimals, and Percents		D-4	Percents
Percents		D-4, X-3	Percents
Square Roots		X-8	Roots
Radicals		V-8, X-8	Rationals and Radicals: Exponents and Equations
Operations on Fractions		A-1, A-3, A-4	Fractions: Operations
Operations on Decimals		A-1	Decimals: Operations
Operations on Integers		A-1, S-1, Y-2, X-1	The Integers: Concepts and Operations
Operations on Rational Numbers		A-1, X-1	Rationals and Radicals: Exponents and Equations
Rational Exponents		A-8, Y-4	Rational Number Concepts and Operations
Significant Digits		S-1, V-6	
Order of Operations		A-1	Exponents and Order of Operations: Introductory
Introduction to Functions	J-13	A-9, C1 less 3C, G-1, S-4, V-3, X-5	Functions: Notation, Domain, Range, Properties, etc.
Ratios and Rates		D-4, X-3	Rates, Ratio and Proportion
Linear Equations		S-4, V-1	Linear and Literal Equations and Formulas
Literal Equations		S-2	Linear and Literal Equations and Formulas
Formula Manipulation		S-4	Linear and Literal Equations and Formulas
Operations with Exponents		V-6	Exponents and Order of Operations: Introductory
Operations on Polynomials		S-1	Polynomial Functions: Concepts, Operations, Equivalence
Factoring	J-4, J-7	A-2, A-3	Factoring Polynomials
Graphing Basics		K-1, Y-7	Graphing Linear Equations
Equation of a Line		X-5	Graphing Linear Equations
Slope		V-3, X-5	Graphing Linear Equations
Direct, Inverse Variation		B-4B, V-8	Variation Equations
Quadratic Formula		V-9, X-10	Quadratic Equations: Solving
Quadratic Equations		S-4	Quadratic Equations: Solving
Systems of Equations		S-4, O-2, V-5, X-8	Systems of Linear and Quadratic Equations
Right Triangles		AT-4, Y-10	Trigonometry: Introduction to the Unite Circle and Right Triangles
Pythagorean Theorem		Y-10, Z-5	Pythagorean Theorem
Similar Triangles		Y-10	Similiarity, Proofs and Constructions
Congruent Triangles		D-6, Y-10	Congruence, Proofs and Constructions
Circumference		Z-7	Area, Perimeter and Circumference
Area of Polygons and Circles		Z-6, Z-7	Area, Perimeter and Circumference
Volume		Z-7	Volume: Rectangular Prisms, Cones, Pyramids, Cylinders, and Spheres
Trig Basics		AT-4	Trigonometry: Introduction to the Unite Circle and Right Triangles
Trig Functions		AT-4, O-4	Trigonometry: Introduction to the Unite Circle and Right Triangles
Trig Identities		AT-4, AT-5, K-4	Trigonometry: Advanced- Identities and Equations
Logarithmic Functions	J-19	AT-3, A-8, O-4, U-1,	Functions: Exponential and Logarithmic
Exponential Functions	J-18	AT-3, A-8, O-3, O-4,	Functions: Exponential and Logarithmic
Graphing Exponential Functions		A-9, G-3	Functions: Exponential and Logarithmic
Graphing Logarithmic Functions		A-9, G-3	Functions: Exponential and Logarithmic
Natural Logs		T-9	Functions: Exponential and Logarithmic
Antilogs		AT-3, A-8	
Interpolation	J-24		
Binomial Theorem		G-9, W-3, V-13	Polynomial Identities and the Binomial Theorem
Operations on Vectors		VC-2, VC-4, VC-5	Vectors and Complex Numbers