

## MULTIMEDIA MATERIALS FOR PHYSICS 121

The Dolciani Math Center (7th Floor Hunter East) has multi-media materials for the following topics in PHYSICS 121. 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.

Topic	Situational DVDs	Tutorial DVDs	PLATO AVAILABLE:
Metric System		Y-7	Measurement: Metric System and Standard System
Conversions with Units of Measure		Y-7	Measurement: Metric System and Standard System
Scientific Notation		S-1, V-6	Scientific Notation
Significant Digits		S-1, V-6	
Percents		D-4, Y-8, X-3	Percents
Ratios and Proportions		D-4, X-3	Rates, Ratio and Proportion
Reading Tables and Charts/ Interpreting Data	SB2, SB4, SB24	M-1,	Statistics: Interpreting Graphs
Operations with Integers		A-1, S-1, Y-2, X-1	The Integers: Concepts and Operations
Operations with Fractions		A-1, A-3, A-4, S-3	Fractions: Operations
Operations with Decimals		A-1	Decimal Concepts: Place Value, Ordering, Rounding; Decimals: Operations
Exponents		A-1,	Exponents and Order of Operations: Introductory
Order of Operations		A-1, S-1	Exponents and Order of Operations: Introductory
Absolute Value	J-9		Absolute Value and the Number Line
Mean, Median, Mode	H-8, I-1	M-2, M-3	Statistics: Introductory- Measures of Center and Spread
Radicals, Square Roots		AT-1, S-3, S-4	Roots
Linear Equations		A-1, S-4, V-1	Linear and Literal Equations and Formulas
Graphing a Function (Quadrants, Axis, Slope)		K-1, O-1	Graphing Linear Equations
Linear Graphs		A-4, V-3, Z-7, Z-8	Graphing Linear Equations
Polynomials	J-4, J-16	A-2, S-1, W-1, X-5, X-6	Polynomials: Concepts, Operations, Equivalence
Factoring Polynomials		A-2, S-2	Factoring Polynomials
Polynomials with Degrees Greater than 1		A-2, S-2	Polynomials: Concepts, Operations, Equivalence
Perpendicular Lines		C-1	Slope Criteria For Parallel and Perpendicular Lines
Parallel Lines		C-1	Slope Criteria For Parallel and Perpendicular Lines
Distance Formula		W-1	
Factoring		A-2, A-3, A-6	Factoring Polynomials
Quadratic Formula		AT-2, V-9, X-10	
Inequalities	J-8, J-21	V-3	Absolute Value and Inequalities
Area of Polygons and Circles		Z-6, Z-7	Area, Perimeter and Circumference
The Unit Circle		G-4	Trigonometry: Introduction to the Unit Circle and Right Triangles
Degrees, Radian Measure		G-4	Trigonometry: Introduction to the Unit Circle and Right Triangles
Trig Basics		AT-4, AT-5, F-1-3	Trigonometry: Introduction to the Unit Circle and Right Triangles
Trigonometric Functions		AT-4, AT-5, O-4, U-1	Trigonometry: Introduction to the Unit Circle and Right Triangles
Trigonometric Identities		AT-4, AT-5, K-4	Trigonometry: Advanced- Identities and Equations
Types of Trigonometric Curves		AT-4, AT-5	
Right Triangle Trigonometry		G-4	Trigonometry: Introduction to the Unit Circle and Right Triangles
Inverse Trig Functions		K-3, T-11	Trigonometry: Advanced- Identities and Equations
Pythagorean Theorem		Y-10, Z-5	Pythagorean Theorem
Graphing Trig Functions		C-2, G-4, G-5	Trigonometry: Introduction to the Unit Circle and Right Triangles
Solving Trigonometric Equations		G-4, G-6	Trigonometry: Advanced- Identities and Equations
Mean Value Theorem		T-5	The Mean Value Theorem
Logarithmic Functions	J-19	AT-3, A-8, O-4, W-2, V-11, U-1	Functions: Exponential and Logarithmic
Natural Logs		T-9 (see Logarithmic Functions)	Functions: Exponential and Logarithmic
Antilogs		AT-3, A-8	The Definite Integral
Graphing Logarithms		A-9, G-3	Functions: Exponential and Logarithmic
Exponential Functions	J-18	AT-3, A-8, O-3, O-4, V-11, U-1	Functions: Exponential and Logarithmic
Graphing Exponential Functions		A-9, G-3	Functions: Exponential and Logarithmic
Limits		C-6, F-1-1, G-11, T-5, U-1	Limits
Continuity		U-1	Limits