

## MULTIMEDIA MATERIALS FOR CHEMISTRY 100

The Dolciani Math Center (7th Floor Hunter East) has multi-media materials for the following topics to assist you in Chemistry 100. 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. Situational DVDs relate concepts to real-life situations. Tutorial DVDs present computations related to concepts.

TOPIC	SITUATIONAL DVDs	TUTORIAL CDs/DVDs	PLATO Available Under:
Identify place values		Y4	Decimal Concepts: Place Value, Ordering, Rounding
Perform operations on fractions and mixed numbers and solve applications with fractions		X1, Y1, Y3, A1	Fractions: Operations
Identify the order relation between two fractions		X1, Y1, Y3	Fractions: Definitions, Concepts, Simplifying, and Comparing
Write decimals in standard form and in words & round a decimal to a given place value and use significant digits		Y4, I1, M1	Decimal Concepts: Place Value, Ordering, Rounding
Perform operations on and solve application with decimals		Y4, Y5	Decimals: Operations
Identify the order relation between fractions and decimals		Y4	Decimal Concepts: Place Value, Ordering, Rounding
Perform operations on integers		S1, X1, A1, Y2	Integers: Concepts and Operations
Perform operations on rational numbers		S3, X1, Y3	Rationals Numbers: Concepts and Operations
Perform operations on exponents	J3	Y4, X1, W1	Exponents and Order of Operations: Introductory
Use the order of operations		Y2, Y4, A1, C1, S1, X1	Exponents and Order of Operations: Introductory
Use scientific notation		V6, X5, S1	Scientific Notation
Work with ratios and rates		X3, Y8	Rates, Ratio and Proportion
Work with proportions and solve application problems with ratio and proportion		X3, Y8	Rates, Ratio and Proportion
Write percents as fractions and decimals and vice versa		Y8	Percent
Find the amount, percent or base for a percent problem and solve application problems		X3, Y8, Y9	Percent
Read and interpret circle, bar and line graphs	J10	Y10, D5	Statistics: Interpreting Graphs
Find measures of central tendency (mean, median, mode)		Y10, I1, M1, D5	Statistics: Introductory- Measures of Center and Spread
Find percentiles		D5	
Solve application problems with measurement and do conversions with standard & metric system		Y7	Measurement: Metric System and Standard System
Perform basic operations with monomials		A1, A2, S1	Monomial Concepts and Operations
Simplify and evaluate algebraic expressions		S1, X2, Y5, Y6, A1, A2	Monomial Concepts and Operations
Solve linear equations and determine if a given value is a solution of an equation	J5	S2, X2, Y6, A1, V1, V4	Linear and Literal Equations and Formulas
Solve literal equations and formulas		A4, S2	Linear and Literal Equations and Formulas
Solve mixture problems		X3, S2, V2	Solving Mixture Problems
Solve systems of equations		Y4, Y5	Systems of Linear Equations
Use a scientific calculator			Using a Scientific Calculator
Read and Write Roman Numerals			Roman Numerals
Solve variation problems	J15	Y8, V8	Rates, Ratio and Proportion
Find slope and graph linear equations		A4, V3, V4	Graphing Linear Equations
Work with exponential functions	J18	G3, W1, A8, V10	
Work with logarithms	J18	A8, AT3, V11, W2	
Solve inverse log equations	J19	AT3, O4	
Solve area problems		G11, T7, D6	Area, Perimeter, Circumference
Solve volume problems		Y9, D6	Volume: Rectangular Prisms, Cones, Pyramids, Cylinders, and Spheres
Solve surface area problems		C6, D6	Area, Perimeter, Circumference
Solve density problems		D6	Statistics: Box Plots, Dot Plots, Histograms, Scatterplots
Construct and read frequency distribution tables		D5	Statistics: Box Plots, Dot Plots, Histograms, Scatterplots