

## MULTI-MEDIA MATERIALS FOR URBAN STUDIES 100

The Dolciani Math Center (7th Floor Hunter East) has multi-media materials for the following topics in URBS 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 DVDS	PLATO – Available under
Operations on integers		A1, D3, X1, Y2, B1	The Integers: Concepts and Operations
Comparing and ordering fractions and mixed numbers		Y3	Fractions: Definition, Rounding, Simplifying, Comparing
Operations on fractions		A1, Y3, S3	Fractions: Operations
Naming decimals		D4, Y4	Decimal Concepts: Place Value, Ordering, Rounding
Operations on decimals		D4, Y4	Decimals: Operations
Writing ratios and rates		X3, Y8, D4	Rational Numbers: Concepts and Operations
Solving proportions		D4, X3, Y8	Rates, Ratio and Proportion
Solving percent problems and using the percent equation		Y8, D4, Y9, X3	Percents
Operations on rational numbers		D3, Y2, X1, S1	Rational Numbers: Concepts and Operations
Integer exponents	J3	A6, B1, V6	Exponents and Order of Operations: Introductory
Order of operations		A1, Y2, Y4, S1, X1, D3	Exponents and Order of Operations: Introductory
Solving equations		A1, S2, V1, X2, Y6, D2	Linear and Literal Equations
Solving literal equations and formulas		A4, S2, V1	Linear and Literal Equations
Solving inequalities	J5, J8	V2, A5, S2	Linear and Literal Equations
Graphing linear equations	J10	A4, D6, W1, X5, S4, V3, Z7, Y7	Graphing Linear Equations
Finding the slope of a line	J10	A4, W1, Z7, Z8	Graphing Linear Equations
Writing the equation of a line		A4, W1, Z7, Z8	Graphing Linear Equations
Graphing linear inequalities	J21	V3	Graphing Linear Equations
Operations on polynomials		A2, S1	Polynomials: Concepts, Operations, Equivalence
Writing numbers in scientific notation		S1, X5, V6, W1	Scientific Notation
Factoring by removing the Greatest Common Factor	J4	X6, A2, S2	Factoring Polynomials
Factoring trinomials of the form $ax^2 + bx + c$		A3, AT1, S2, V6, W1, X6	Factoring Polynomials
Factoring differences of two squares and perfect-square trinomials	J4	A6, S2, V6, X6	Factoring Polynomials
Using grouping to factor trinomials		V6, X6	Factoring Polynomials
Multiplying and dividing rational expressions		AT1, A5, D3, S3, V7, X7	Rationals and Radicals: Exponents and Equations
Adding and subtracting rational expressions		AT1, A5, D3, V7, X7	Rationals and Radicals: Exponents and Equations
Simplifying complex fractions		AT1, V7, X7	Rationals and Radicals: Exponents and Equations
Solving equations containing rational expressions		A5	Rationals and Radicals: Exponents and Equations
Operations on radicals		AT2, S4, AT1, S3, V8, X8	Rationals and Radicals: Exponents and Equations
Rationalizing the denominator		AT2, X9, S4, V8	Rationals and Radicals: Exponents and Equations
Solving equations that contain radical expressions		AT2, X9, S4, V8	Rationals and Radicals: Exponents and Equations
Using factoring and square roots to solve quadratic equations	J7	A6, X9, A8, S4, V9	Quadratic Equations: Solving
Solving quadratic equations by completing the square	J7	A6, V9, X9, S4	Quadratic Equations: Solving
Solving quadratic equations by using the quadratic formula	J7	A6, V9, X10, AT2	Quadratic Equations: Solving