

DEPARTMENT: MATHEMATICS	COURSE TITLE: NUMBER PATTERNS A COURSE NUMBER: 306
GRADE(S): 9-12	PRE-REQUISITES (IF ANY): NONE

UNIT	LENGTH	CONTENT	SKILLS	METHODS OF ASSESSMENT	FRAMEWORK STRAND(S) & STANDARD(S)
Statistics	3 weeks	<ul style="list-style-type: none"> • Mean • Median • Mode • Range • Dot plot • Proportion • Percent • Circle graph • Histogram • Box & Whiskers Plot • Stem & Leaf Plot • Decimal computation 	<ul style="list-style-type: none"> • Construct, read and interpret charts, tables and graphs • Collect, organize and describe data • Apply measures of central tendency • Solve for one unknown in a proportion • Find the percent of a number • Find what percent one number is of another • Compute with decimals • Use a protractor to measure and create angles 	<ul style="list-style-type: none"> • Notebook • Tests • Papers • Homework • In-class projects • Portfolio 	10.D.1 10.D.3 8.N.10
Coordinate Graphing	3 weeks	<ul style="list-style-type: none"> • Coordinate plane • Scatter plots • Linear graphs • Creating data and graphs from situations 	<ul style="list-style-type: none"> • Use curve fitting to predict from data • Plot ordered pairs • Represent and analyze relationships using tables and graphs • Find patterns in linear tables 	<ul style="list-style-type: none"> • Notebook • Tests • Papers • Homework • In-class projects • Portfolio 	10.D.2 10.D.3 6.P.7 6.P.6 8.P.4
Probability	3 weeks	<ul style="list-style-type: none"> • Theoretical probability • Permutations • Combinations • Experimental probability • Fraction computation 	<ul style="list-style-type: none"> • Model situations by doing experiments to determine probability • Construct a sample space to determine probability • Construct a tree diagram to determine probability • Compute probability as a fraction or percentage • Compute with fractions • Distinguish between experimental and theoretical probability 	<ul style="list-style-type: none"> • Notebook • Tests • Papers • Homework • In-class projects • Portfolio 	8.D.4 8.N.1 8.N.10
Equations	3 weeks	<p>Equality Variables Integer computation One to one correspondence</p>	<ul style="list-style-type: none"> • Use hands on activities to gain an understanding of maintaining balances in number sentences 	<ul style="list-style-type: none"> • Notebook • Tests • Papers • Homework 	8.N.10 6.P.5 6.P.3 6.P.2

		Solving one solution, no solution or many solution equations in one variable	<ul style="list-style-type: none">• Understand the meaning of a variable in an equation• Use the commutative and distributive properties to simplify algebraic expressions• Understand addition, subtraction of integers• Be able to multiply and divide with integers	<ul style="list-style-type: none">• In-class projects• Portfolio	
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