

District Scope and Sequence

Subject: Mathematics

Course: 352 IMP 2

Grade Level: 9 – 12

Concepts	Topics/Units	Content/Skills	Essential activities/Agreements
			Honors option within heterogeneously grouped class; Common assessments and POWs Portfolio
Using equations to represent real-life situations and developing the skills and strategies to solve them.	Solve It	<ul style="list-style-type: none"> • Distributive Property • Principles of equivalent equations • Solving linear equations • Using graphs to solve non-linear equations • Relationships between expressions, functions, equations, and graphs 	
Understanding surface areas and volumes; the derivation of the formulas and their application to real life situations	Do Bees Build it Best	<ul style="list-style-type: none"> • Pythagorean theorem • Right triangle trigonometry • Area of quadrilaterals and polygons • Surface area and volume of prisms and cylinders • Similarity revisited • Areas and volumes of similar figures • Maximizing area and volume 	
Representing and solving a system of linear constraints algebraically and graphically	Cookies	<ul style="list-style-type: none"> • Solving systems of linear equations and inequalities in 2 variables • Dependent, independent and inconsistent pairs of equations • Linear programming 	Linear Programming project
Designing and conducting a statistical experiment and interpreting the results using the chi-square statistic	Is There a Difference?	<ul style="list-style-type: none"> • Sampling, data collection • Null hypothesis • Testing hypotheses • Chi-square • Normal distributions 	Statistical experiment project
			Common final exam