

AMDM Subject Group Overview - Semester 1

Unit Name	Unit 1: Analyzing Numerical Data	Unit 2: Probability	Unit 3: Statistics	Unit 4: Recursion Models
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Time Frame	5 weeks	6 weeks	4 weeks	4 weeks (finish during 2nd semester)
Standards/IB Topics	MAMDM.N.1	MAMDM.N.1 MAMDM.A.4	MAMDM.D.3 MAMDM.A.4	MAMDM.D.4 MAMDM.G.1
Content Specific Information	<ul style="list-style-type: none"> ● Estimating large numbers ● Using Ratios ● Indices using weighted sums and averages ● Validating identification numbers 	<ul style="list-style-type: none"> ● Determining probability ● Everyday decisions based on probability ● Expected value 	<ul style="list-style-type: none"> ● Statistical investigations ● Analyzing data ● Sources of variability ● SAT/ACT Prep (1 week) 	<ul style="list-style-type: none"> ● Relationships in data ● Recursion in exponential growth and decay ● Recursion using rate of change
Common Assessments/ Major Projects	Unit 1 Test	Unit 2 Test Carnival Project	Unit 3 Test	Unit 4 Test Math in My Future Project
Resources	AMDM from Texas Association of Supervisors of Mathematics and the University of Texas at Austin	AMDM from Texas Association of Supervisors of Mathematics and the University of Texas at Austin	AMDM from Texas Association of Supervisors of Mathematics and the University of Texas at Austin SAT/ACT Boot Camp Materials	AMDM from Texas Association of Supervisors of Mathematics and the University of Texas at Austin

AMDM Subject Group Overview - Semester 2

Unit Name	Unit 5: Functions	Unit 6: Decision Making in Finance	Unit 7: Networks and Graphs
Time Frame	4 weeks	6 weeks	5 weeks
Standards/ IB Topics	MAMDM.D.4 MAMDM.G.1 MAMDM.G.2	MAMDM.A.3	MAMDM.D.7
Content Specific Information	<ul style="list-style-type: none"> ● Regression in linear and non-linear functions ● Cyclical functions ● Step and piecewise functions 	<ul style="list-style-type: none"> ● Personal finance skills (2 weeks) ● Future value of an investment ● Present value of an investment ● Building an investment ● Using credit 	<ul style="list-style-type: none"> ● Circuits, paths, and graph structures ● Spanning trees ● Graph coloring ● PERT charts
Common Assessments/ Major Projects	Unit 5 Test	Unit 6 Test Investment Project	Unit 7 Test
Resources	AMDM from Texas Association of Supervisors of Mathematics and the University of Texas at Austin	AMDM from Texas Association of Supervisors of Mathematics and the University of Texas at Austin Math of Finance materials Wall Street Journal	AMDM from Texas Association of Supervisors of Mathematics and the University of Texas at Austin