Advanced Mathematical Decision Making

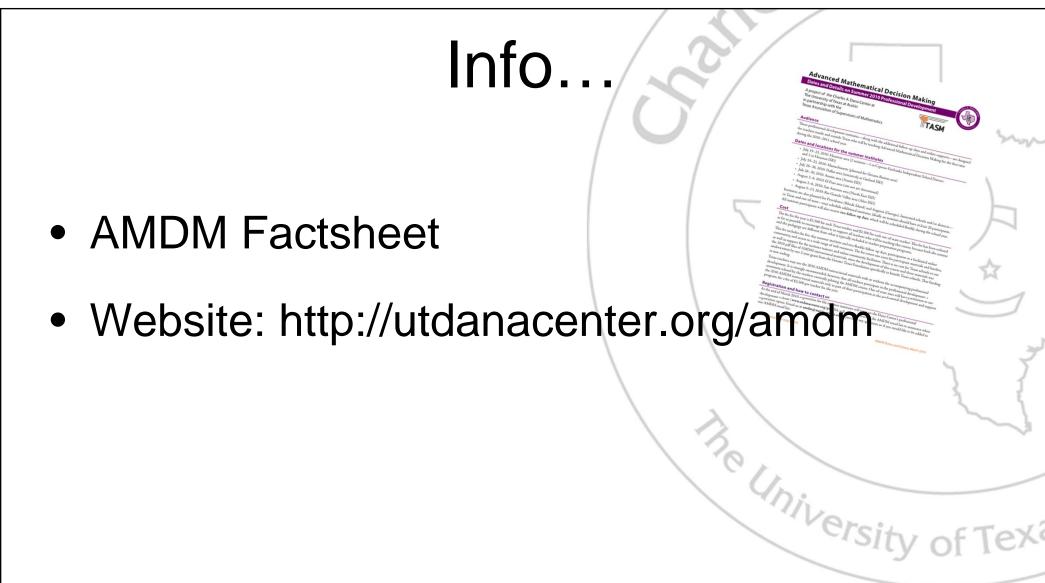


TASM

An initiative of the Charles A. Dana Center and the Texas Association of Supervisors of Mathematics with funding from Greater Texas Foundation

Presentation at Georgia Mathematics Conference October 20, 2011









AQR/AMDM chronology

- Winter/Spring 2007: TASM forms working group on 4th-year option; connects with Dana Center to lead the work
- 2007-2009: Dana Center leads development of student and teacher materials (Funding from Greater Texas Foundation)
- 2009-2010: AMDM pilot (100 teachers; 80+ schools; 45+ districts, 4 states)
- Spring, 2010: Texas SBOE asks TEA for independent panel review





AQR/AMDM chronology

- Summer 2010: First open AMDM institutes (200+ teachers) prepare for first year of full AMDM implementation during 2010-2011 year
- Summer 2010: Georgia adopts course standards for AMDM
- January, 2011: SBOE adopts Advanced Quantitative Reasoning
- Summer, 2011: Georgia fully implements TOT model for AMDM





Suite of Georgia H.S. Math Courses

- Math 1 / Math 2 / Math 3
- Math 4
- Advanced Mathematical Decision Making (in lieu of Math 4)
- Mathematics in Industry and Government
- Algebra I / Geometry / Algebra II
- Pre-Calculus (Alg. II pre-req)
- Advanced Mathematical Decision Making (Alg. II pre-req)





Advanced Mathematical Decision Making

- Alternative course to pre-calculus/Math 4
- Follows Algebra II or Math 3
- 4th-year math requirement for non-STEM majors or for workforce training programs
- Elective for calculus-intending students
- Rigorous, relevant, AND accessible
- Preparing students for college and careers





Unit Outline

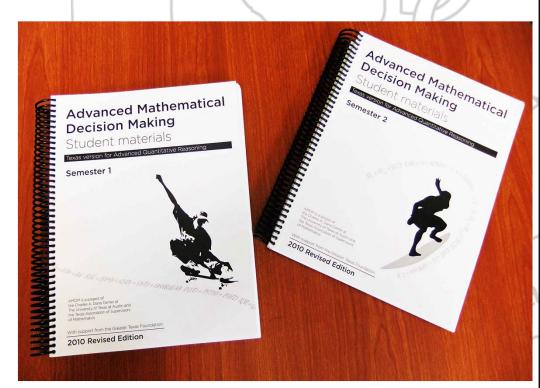
- 1. Analyzing Numerical Data
- 2. Probability
- 3. Statistical Studies
- 4. Using Recursion in Models and Decision Making
- 5. Using Functions in Models and Decision Making
- 6. Decision Making in Finance
- 7. Networks and Graphs
- 8. Spatial and Geometric Modeling (planned) ity of Texa
- 9. Decision Making in Fair Division/Selection (planned)





Student Materials

- Reformatted in a new 'compressed format' for free download (no white space for student work)
- Available as printed books if schools want to purchase: \$30 per student for 2-book set (information on card)







Teacher Materials Now Available

- Set of 7 teacher binders include all student materials, as well as section and unit planners
- One binder for each unit
- Same as downloadable files, printed on white single-sided paper
- \$175 a set







AQR/AMDM Institutes

- Austin, Texas
- San Antonio, Texas
- Houston, Texas
- Fort Worth, Texas
- Boston, Massachusetts
- Hartford, Connecticut
- Atlanta, Georgia
- Providence, Rhode Island





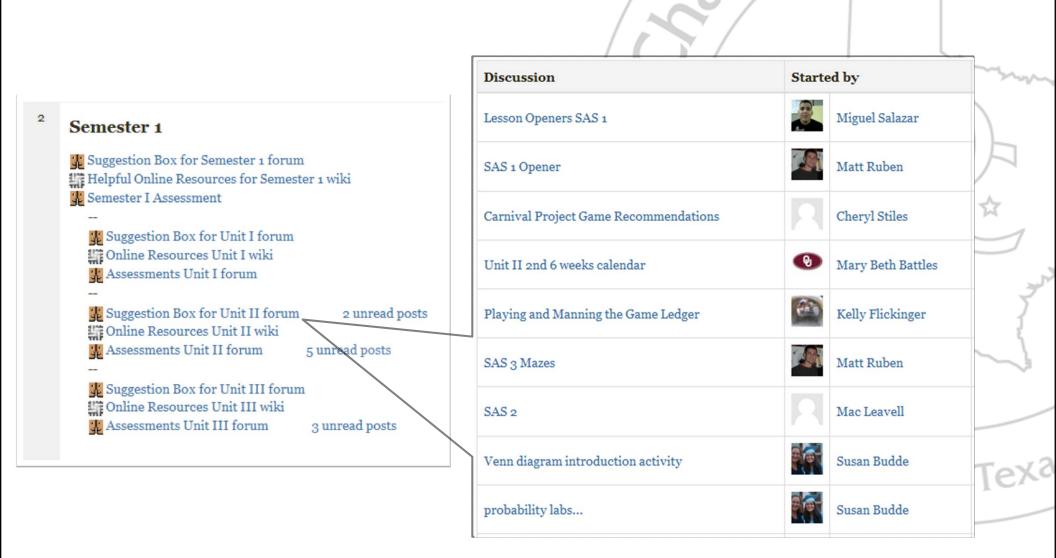


Moodle: Online Support

- Collaborative Teacher Portal
- Resources, Assessments, Course Syllabi
- Implementation Questions and Solutions
- Current SE/TE Course Materials









at the University of Texas at Austin

AMDM today...

- Course standards adopted in TX, GA
- Course is offered in 7 states: TX, GA, CO, IL, MA, CT, RI
- Student and teacher materials available online or printed through UT-Austin, Dana Center
- Course materials available statewide in Learning Village (GA only)



Thanks to our working groups...

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- Wade Ellis (CA
- Dana Center Staff
- Others...





Thank You to Our great Georgia AMDM pioneer teachers!





And a HUGE Thank You to Greater Texas Foundation!

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Advanced Quantitative Reasoning web site utdanacenter.org/aqr

Advanced Mathematical Decision Making web site utdanacenter.org/amdm





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