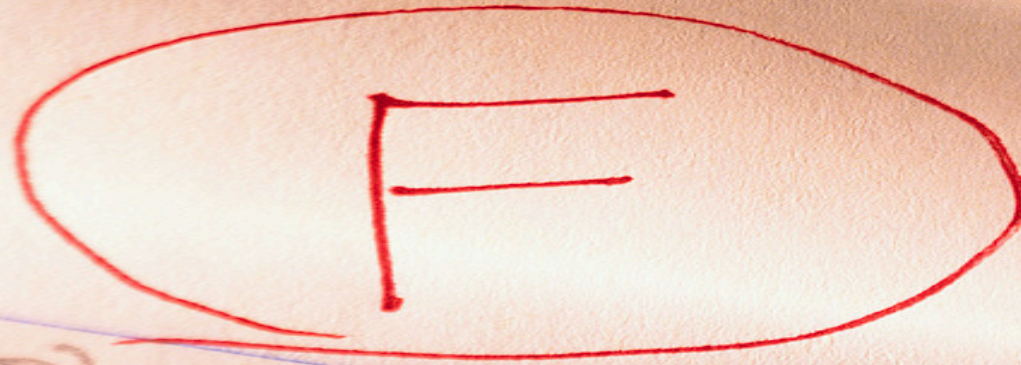


UNIVERSITY OF WISCONSIN-MILWAUKEE



DEVELOPMENTAL MATH REFORM

**PHYLLIS KING, PH.D.
KYLE SWANSON, PH.D.
December 5, 2013**

Dropouts Tell No Tales

An African American journalist returns to his college alma mater to find out why so many students like him never make it out.

By Jamaal Abdul-alim



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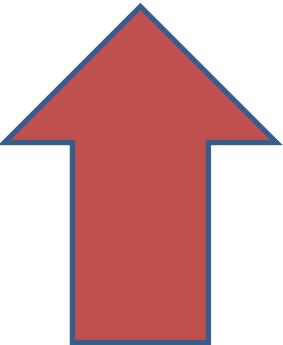


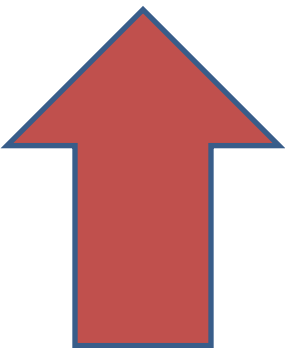
New Freshmen Profile 2013

Remedial Math Placement

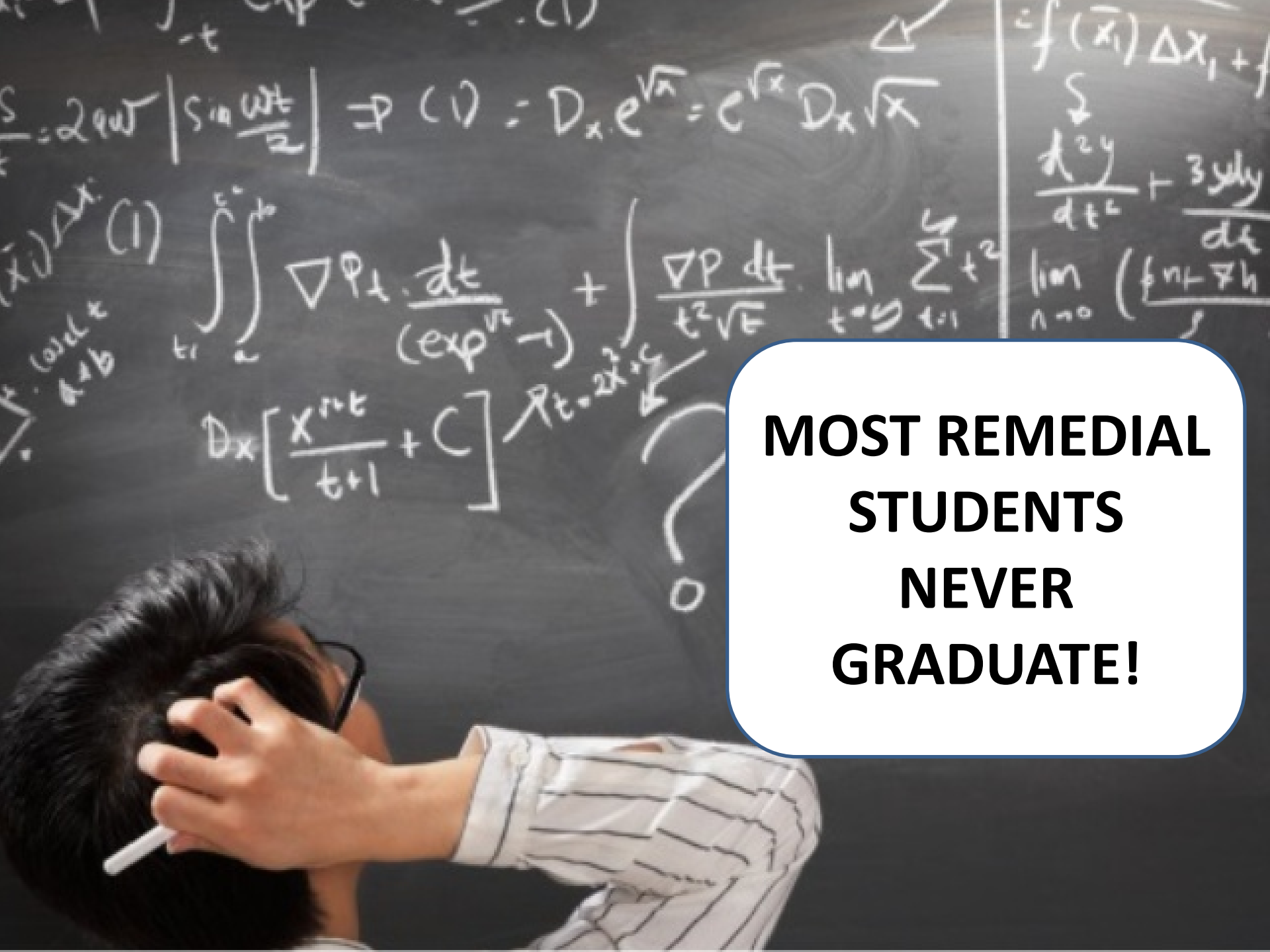
	2009	2010	2011	2012	2013	
Total Freshmen	4,100	3,760	3,678	3,435	3,256	↓
% Remedial Math	41.54	42.53	46.71	44.10	48.40	↑
% math 90	15.46	14.87	18.76	16.10	25.37	↑

 CREDIT

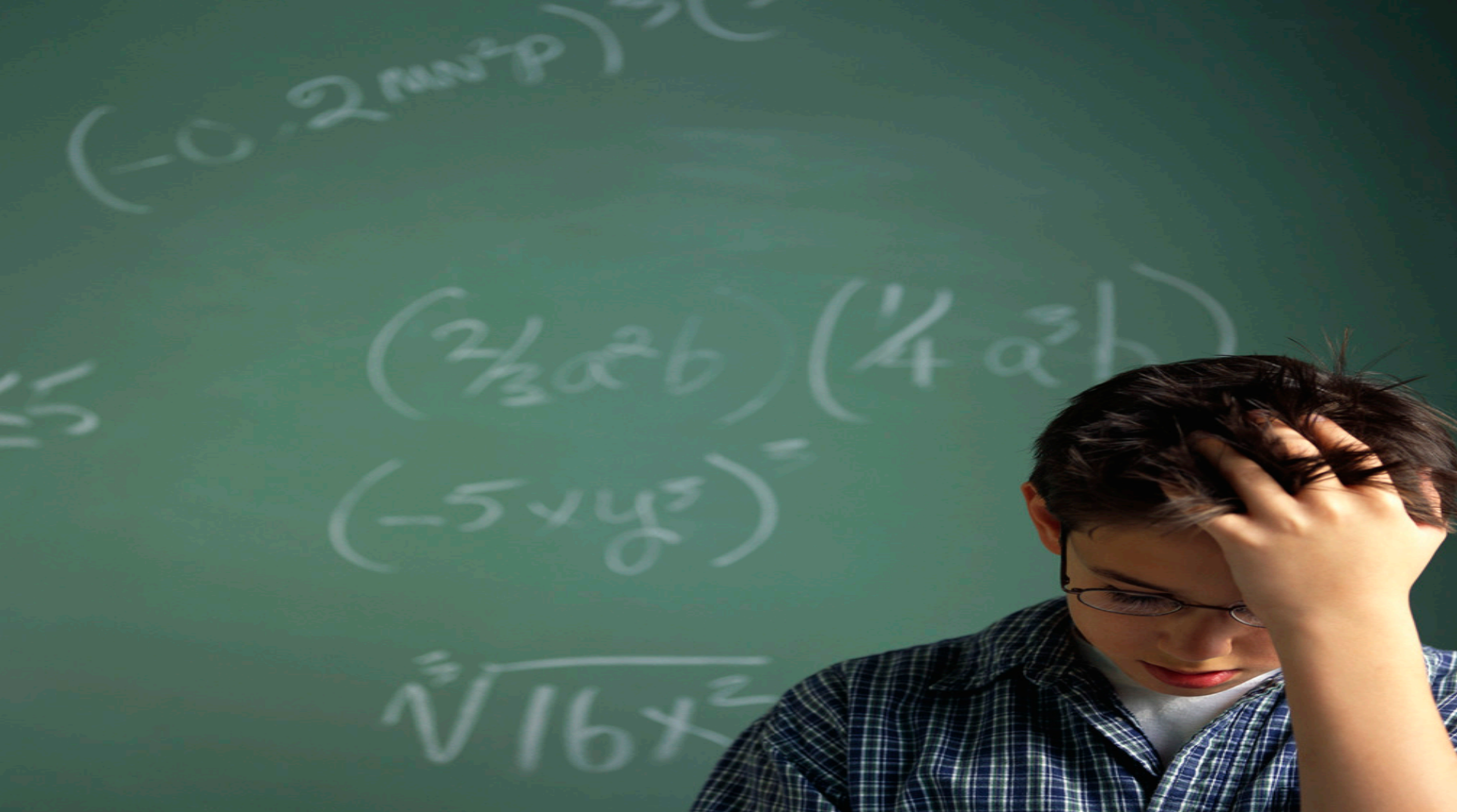
 COST

 TIME

 RISK



**MOST REMEDIAL
STUDENTS
NEVER
GRADUATE!**



Of all 2004 new freshmen needing remedial math, only **31% graduated in 6 years.**

MATH READINESS REFORM MENU

Instructional Reform

- **Modularized courses**
- **Compressed courses**
- **Contextualized courses**
- **Non-academic supports**

Placement Reform

- New placement tests
- New placement policies

Pathways Reforms

- Statistics-based pathways
- Quantitative literacy-based pathways

Oversight



- Remedial Education Steering Committee
- Development math coordinator

Pre-college activities

- Common core standards and curricular alignment
- Common definitions and transfer policy between MPS, MATC and UWM (Milwaukee Connected Community)



Policies



- **Placement Testing**
Consider new algorithm(s) for placing students
- **Enforce Board of Regents 30 credit policy by fall 2014.**
- **Early warning system**
- **Math attendance policy**
 - **Math 090 and 095 have 2-week attendance policy.**
 - **Math department can drop students for non-attendance in the first week of classes.**

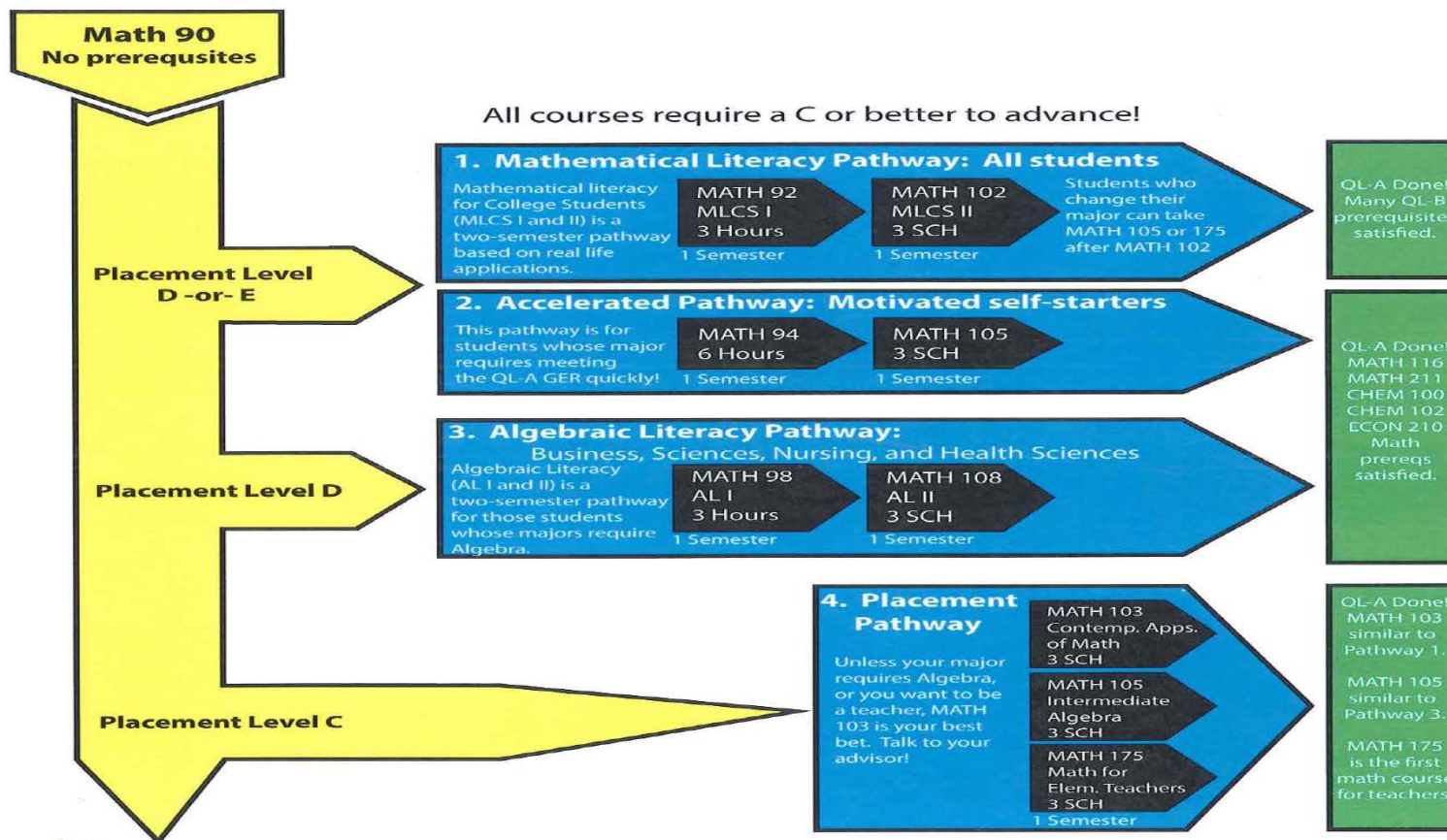


Preparedness and Instruction

- **Summer Bridge Program (PantherMath Prep)**
- **Curricular Design**
 - UW Colleges math pilot (implemented fall 2013)
 - Math pathways
- **Instructor training**

UWM Developmental Math Flowchart

Your initial math course at UWM is determined by your score on the UWM placement test and your Math ACT score



Key:
SCH = Student Credit Hours
MATH 116: College Algebra
MATH 211: Survey in Calculus
CHEM 102: General Chemistry

QL-A = Quantitative Literacy-A General Education Requirement
QL-B = Quantitative Literacy-B General Education Requirement
CHEM 100: Chemical Science
ECON 210: Economic Statistics

Advancing Quality Teaching

Lessons and out-of-class materials

Language and literacy

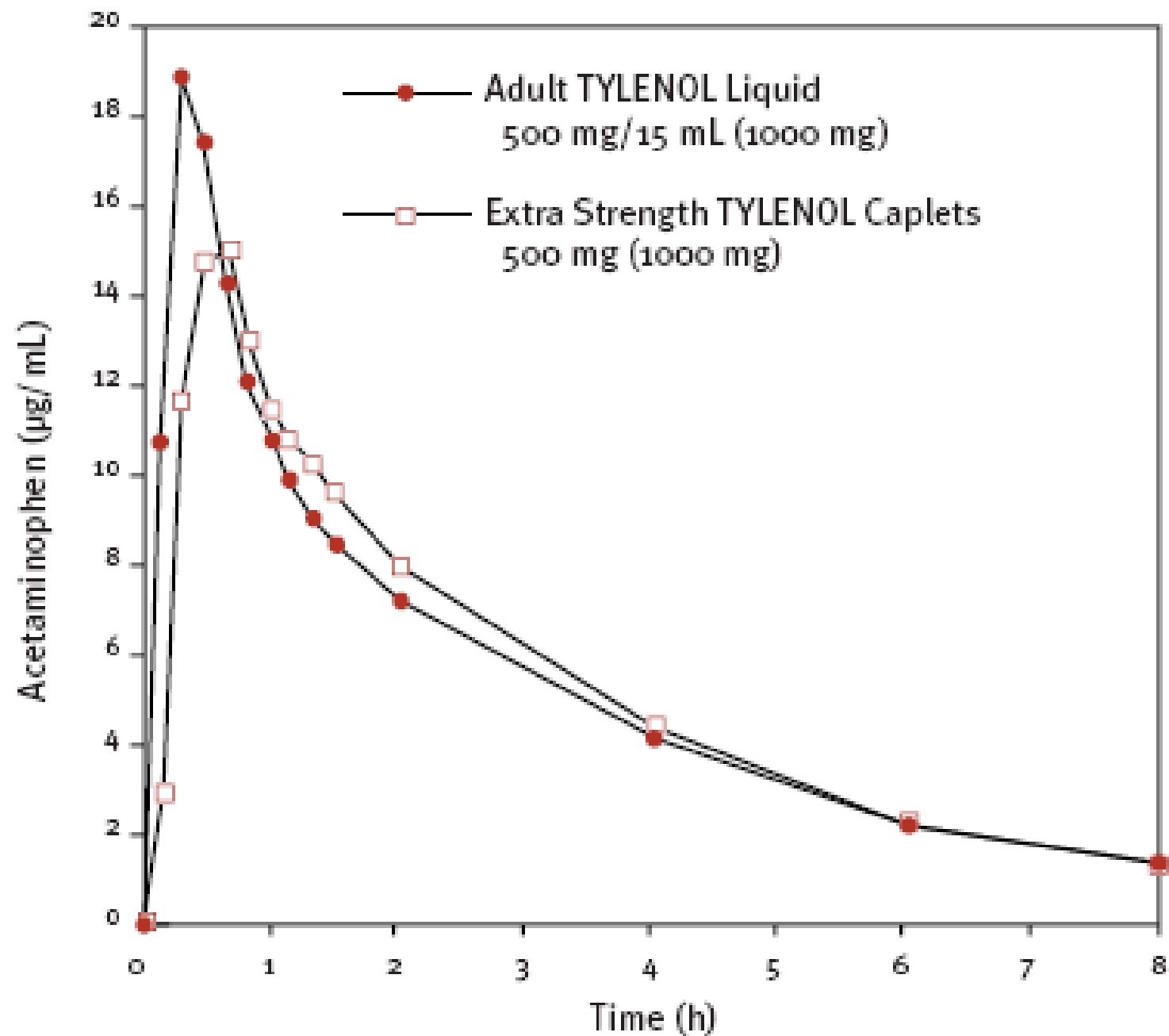
Productive Persistence

Ambitious learning goals

Dynamic online environment

Rapid Analytics

Formative and summative assessments



"We are
confronted
with the
fierce
urgency of
now."

Rev. Martin Luther King Jr.

