

# *Expanding Resources and Opportunities in Science and Math*

## Rigor, Relevancy, Relationships, and Resources

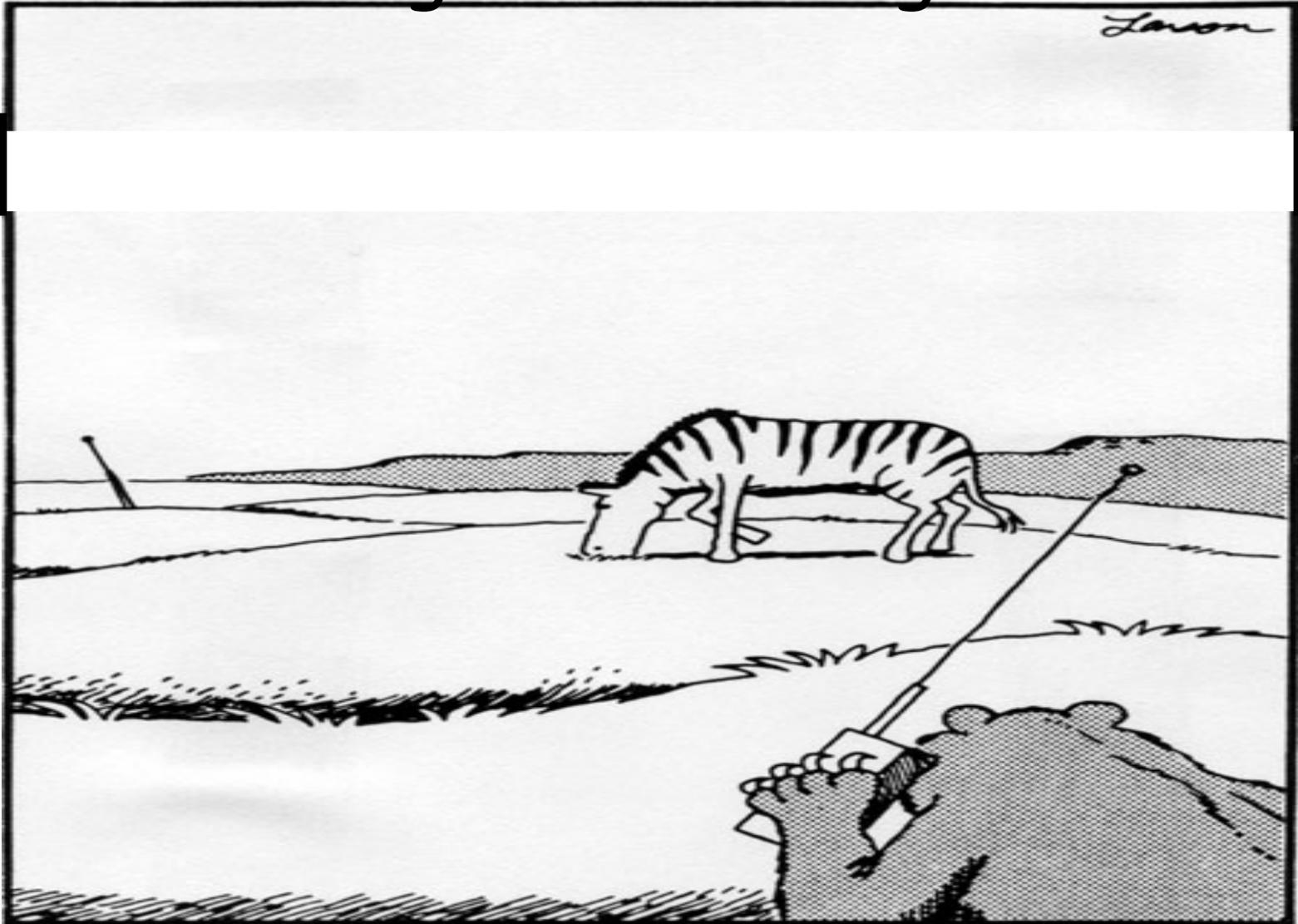
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Resident Practitioner: School/Business Partnerships

National Association of Secondary School Principals

# Things Have Changed...

Larson



The modern lion



*When the world is flat...  
Whatever can be done,  
it will be done.*

Tom Friedman

**Will it be done by  
you or to you?**

*No country, however  
rich, can afford the  
waste of its  
human resources.*

**President Franklin Roosevelt**

*Education quality  
impacts America's  
economic competitiveness  
and long-term success.*

**Business Education Network  
First Annual Report, 2006  
U. S. Chamber of Commerce**

# Connect & Succeed

*How do you unite people that care deeply about the issues and people that want to improve present practice?*

*10 million jobs will go unfilled by 2010 because the available workforce will lack the needed skills to fill the positions.*

**Business Education Network  
First Annual Report, 2006  
U. S. Chamber of Commerce**

*The educational capacity  
of our workforce,  
particularly in math,  
science and  
communication skills,  
is critical.*

Antoinette M. Bailey, Vice President  
Community and Education Relations  
The Boeing Company

*Raising a country's  
average level of  
educational attainment by  
one year can increase the  
per capita gross domestic  
product by 3% to 6%.*

**Organization for Economic Cooperation and  
Development (OECD)**

**\$13.5 Trillion**

**United States**

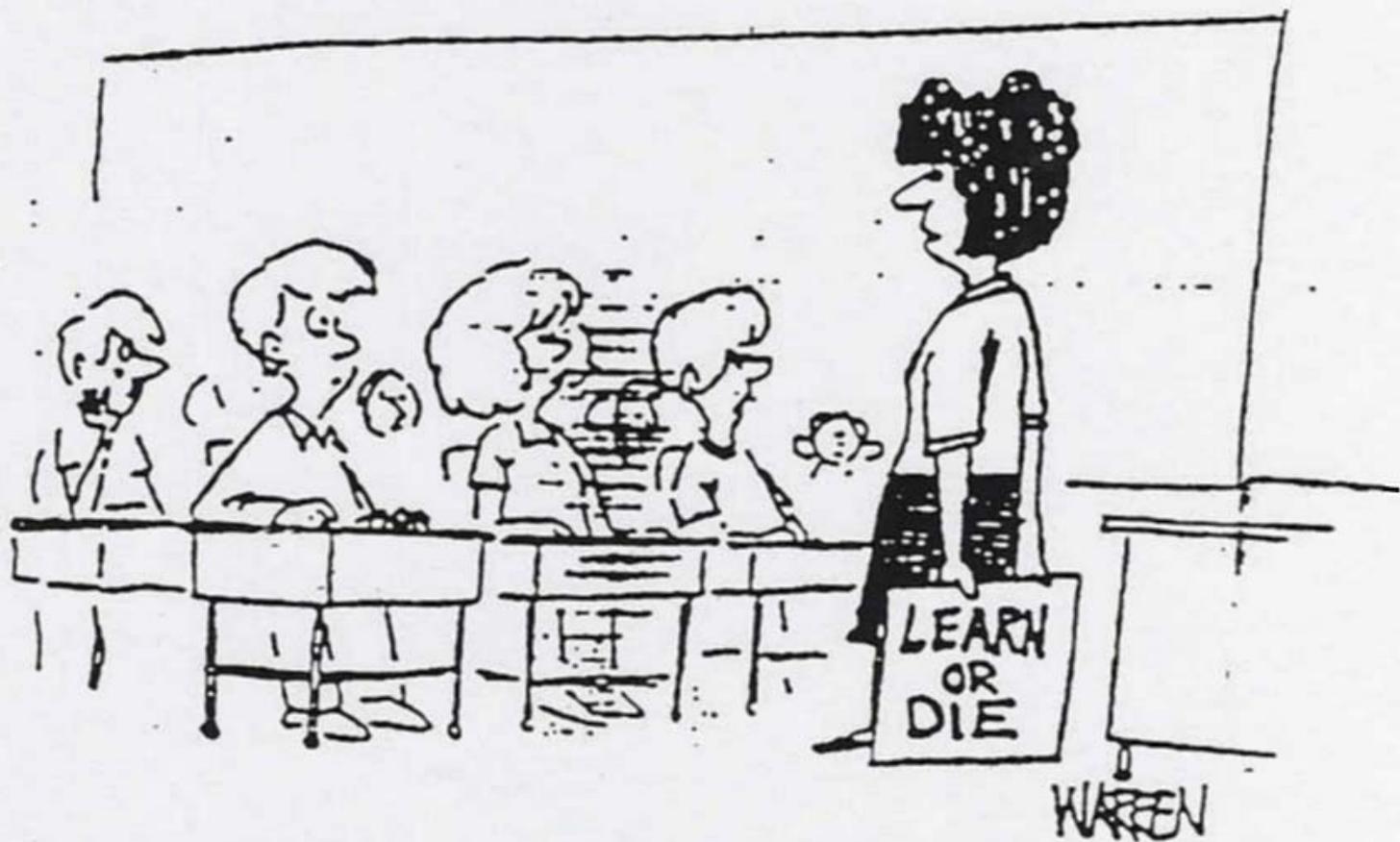
**Gross Domestic Product**

*Impact of one year increase in average  
level of educational attainment :*

**3% = \$405 Billion**

**6% = \$810 Billion**

**Rigor**  
**Relevancy**  
**Relationships**

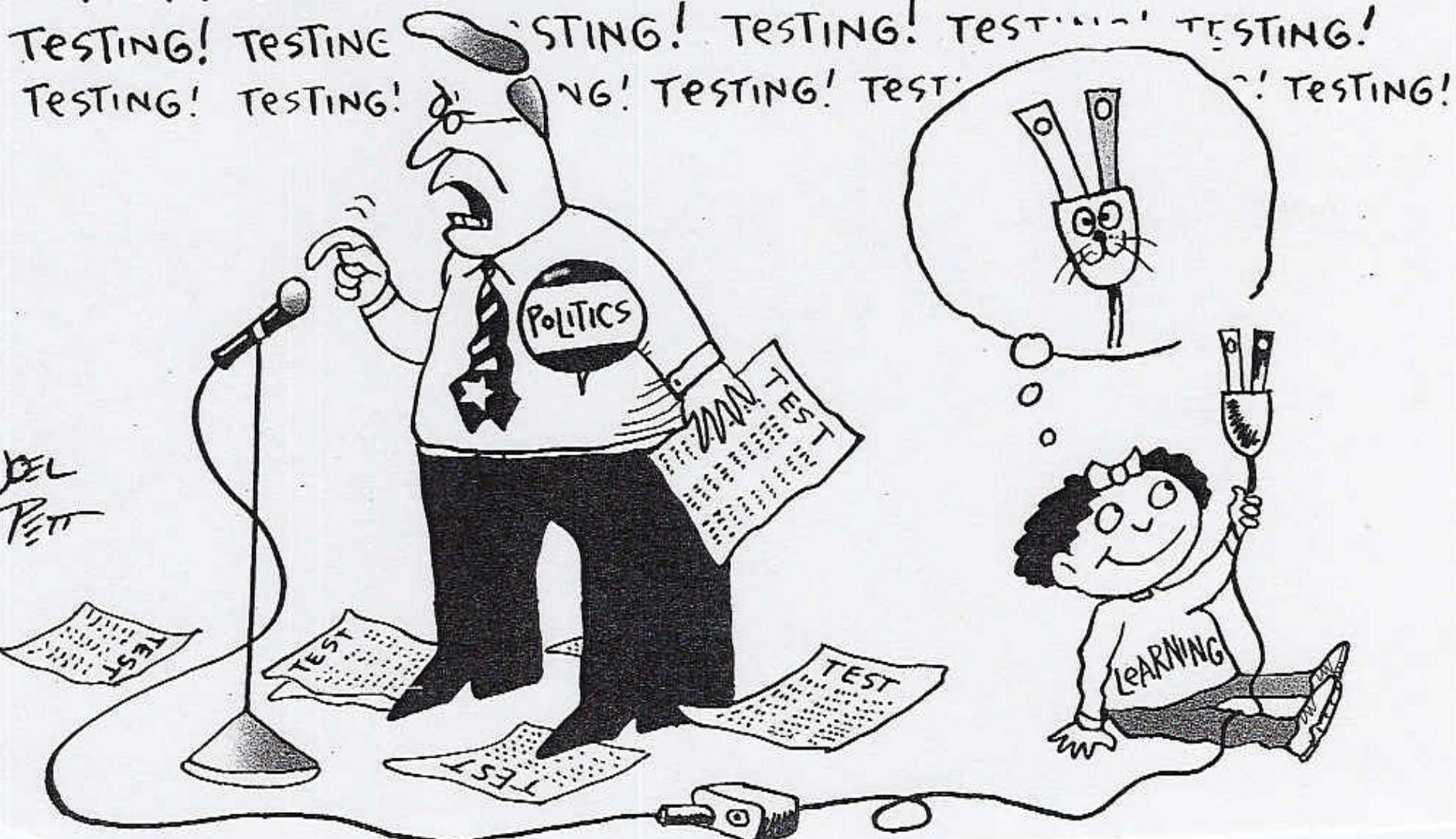


*"Now I'd like to discuss a new classroom policy..."*

# Rigor

**Academically challenging curriculum that prepares students with the skills needed to meet the rapidly changing demands of the 21<sup>st</sup> century.**

TESTING! TESTING! TESTING! TESTING!  
TESTING! TESTING! TESTING! TESTING! TESTING!



# Relevancy

*...change students attitudes about math, science and engineering by exciting students about real-world applications that are relevant to their lives.*

Torrance Robinson: Director, Federal Affairs

Texas Instruments

# Relationships

**Extend the academic program beyond the school campus to take advantage of learning opportunities outside the four walls of the building.**

*Breaking Ranks II, Recommendation # 24*

**Rigor**

**Relevancy**

**Relationships**

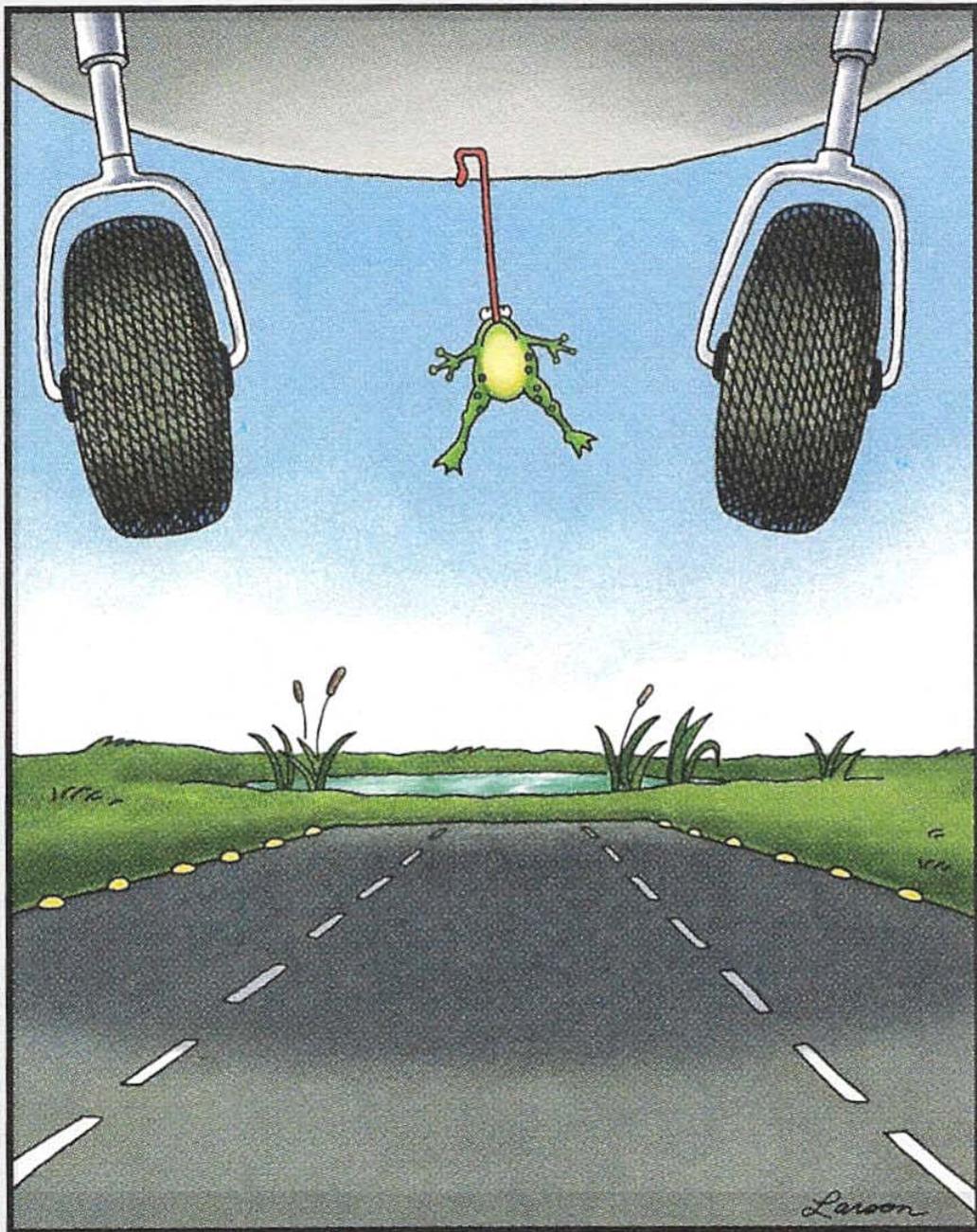
**Resources**

*Vision without  
funding is just a  
hallucination.*

**Henry Ford**

# What prevents schools from participating in partnerships?

- **Time**
- **Priority issues in schools:**
  - Safety
  - NCLB requirements (meeting AYP)
  - Assessment
  - Staffing (HQT)
- **A sense that current partnerships activities are sufficient**
- **Inexperience with partnerships**





*The Council for*  
Corporate & School  
Partnerships

*Guiding  
Principles for  
Business and  
School  
Partnerships*

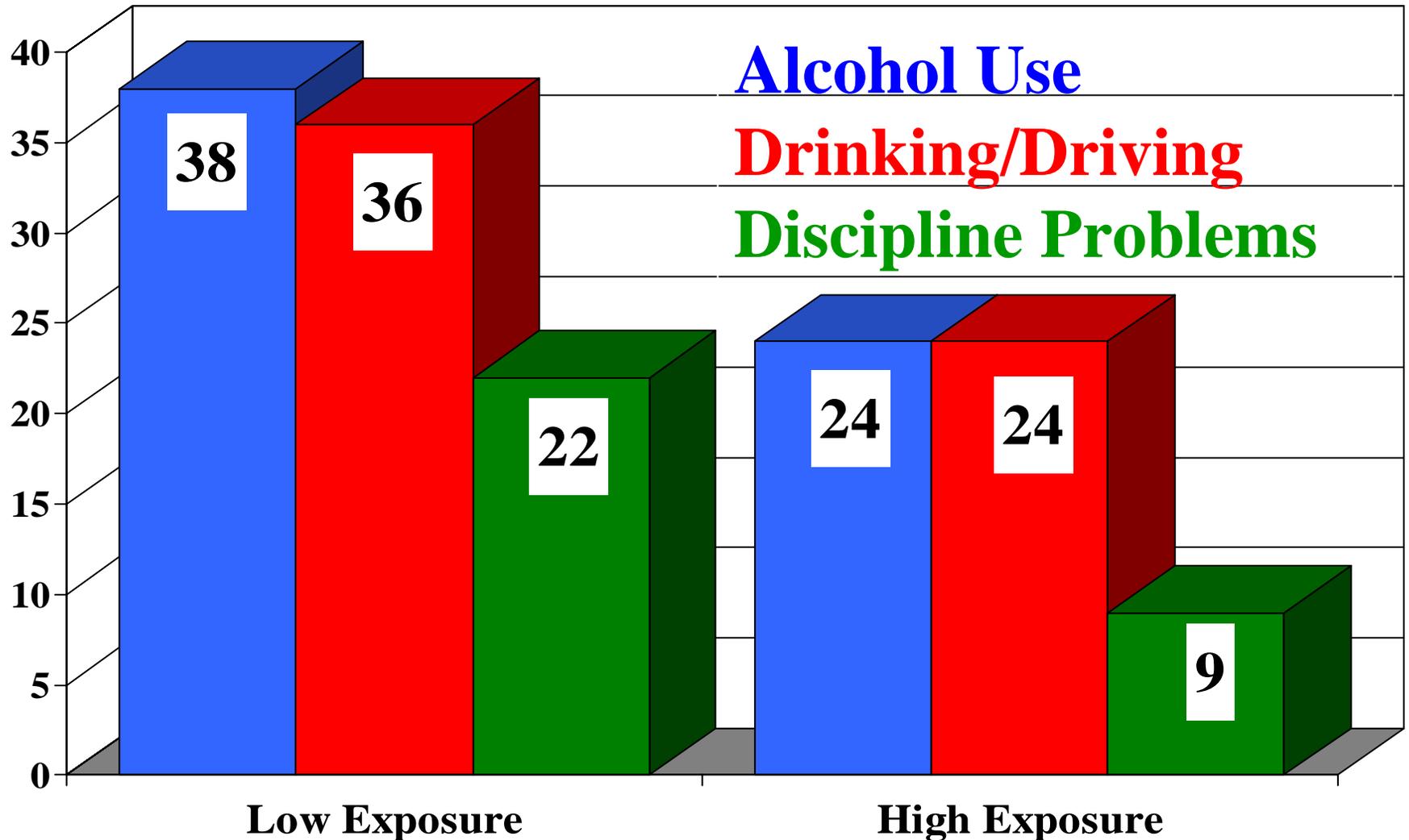
*A How-To Guide  
for*

*School-Business Partnerships*

# ***A How-To Guide for School/Business Partnerships***

- **Preliminary Planning** (p. 7)
- **Laying the Foundation** (p.10)
- **Implementation** (p. 13)
- **Sustaining the Partnership Over Time** (p. 15)
- **Evaluation** (p. 16)

# Risk Behavior Patterns by Partnership Exposure (%)



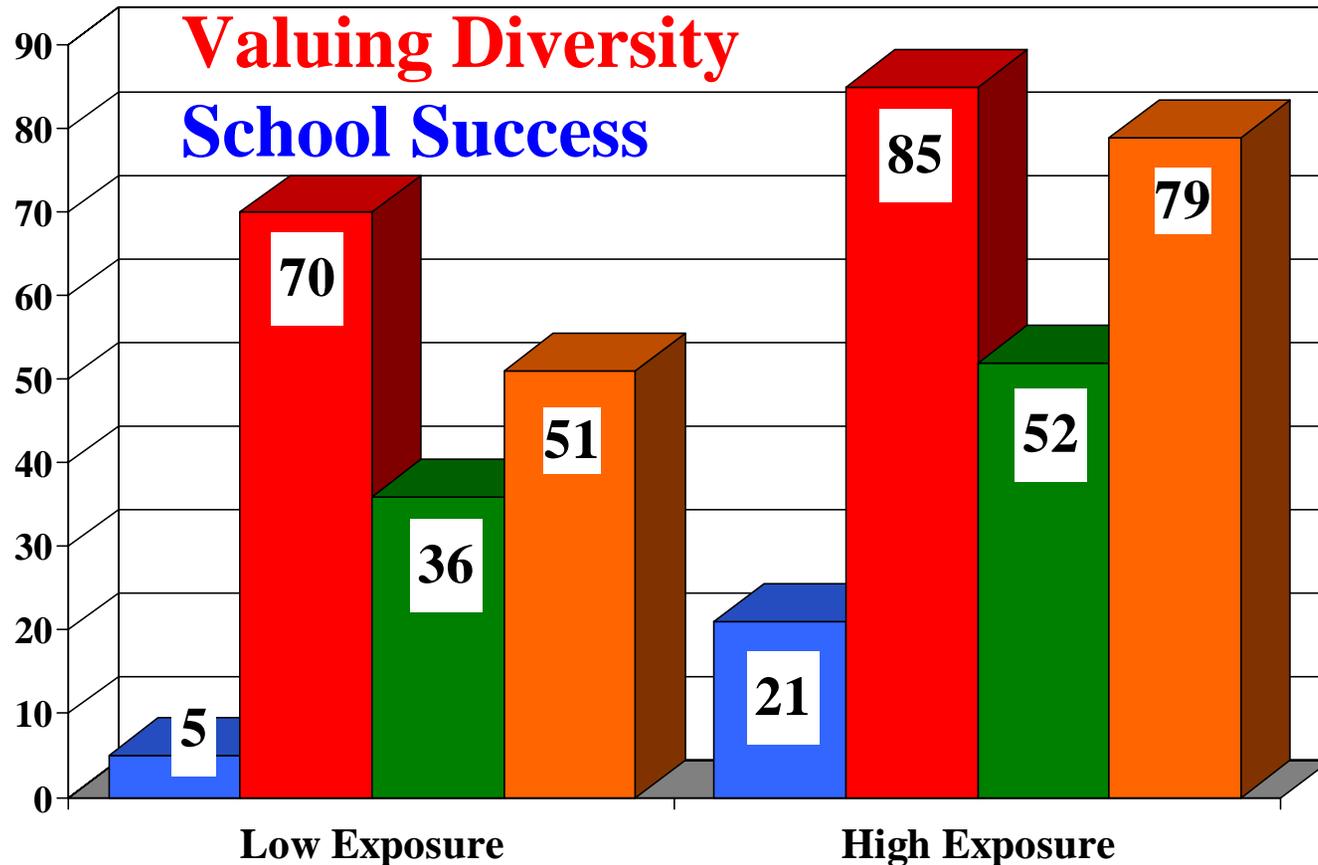
# Student Thriving Outcomes by Partnership Exposure (%)

Exhibiting Leadership

Maintaining Health

Valuing Diversity

School Success



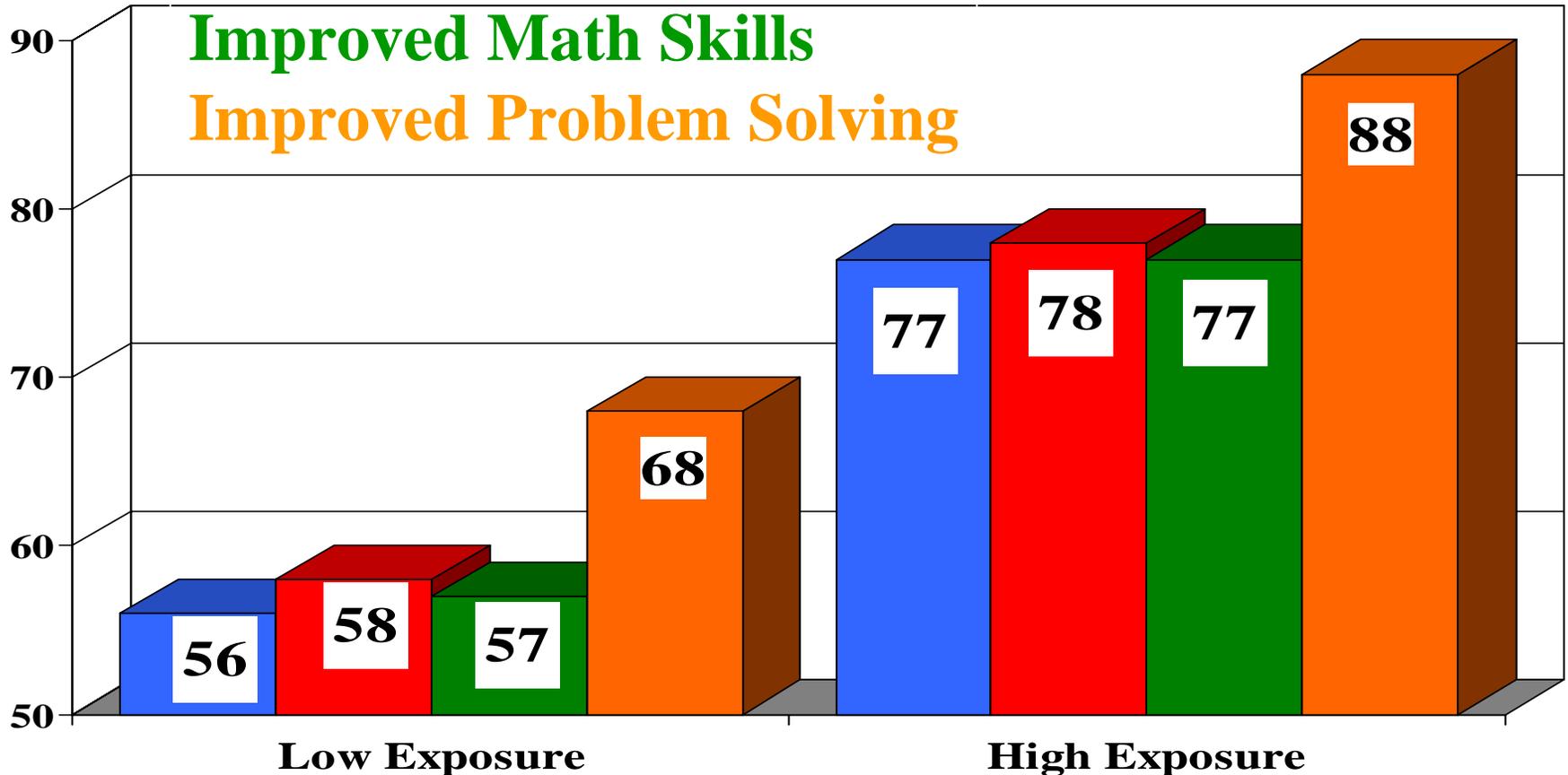
# Student Positive Outcomes by Partnership Exposure (%)

Improved Reading

Improved Writing

Improved Math Skills

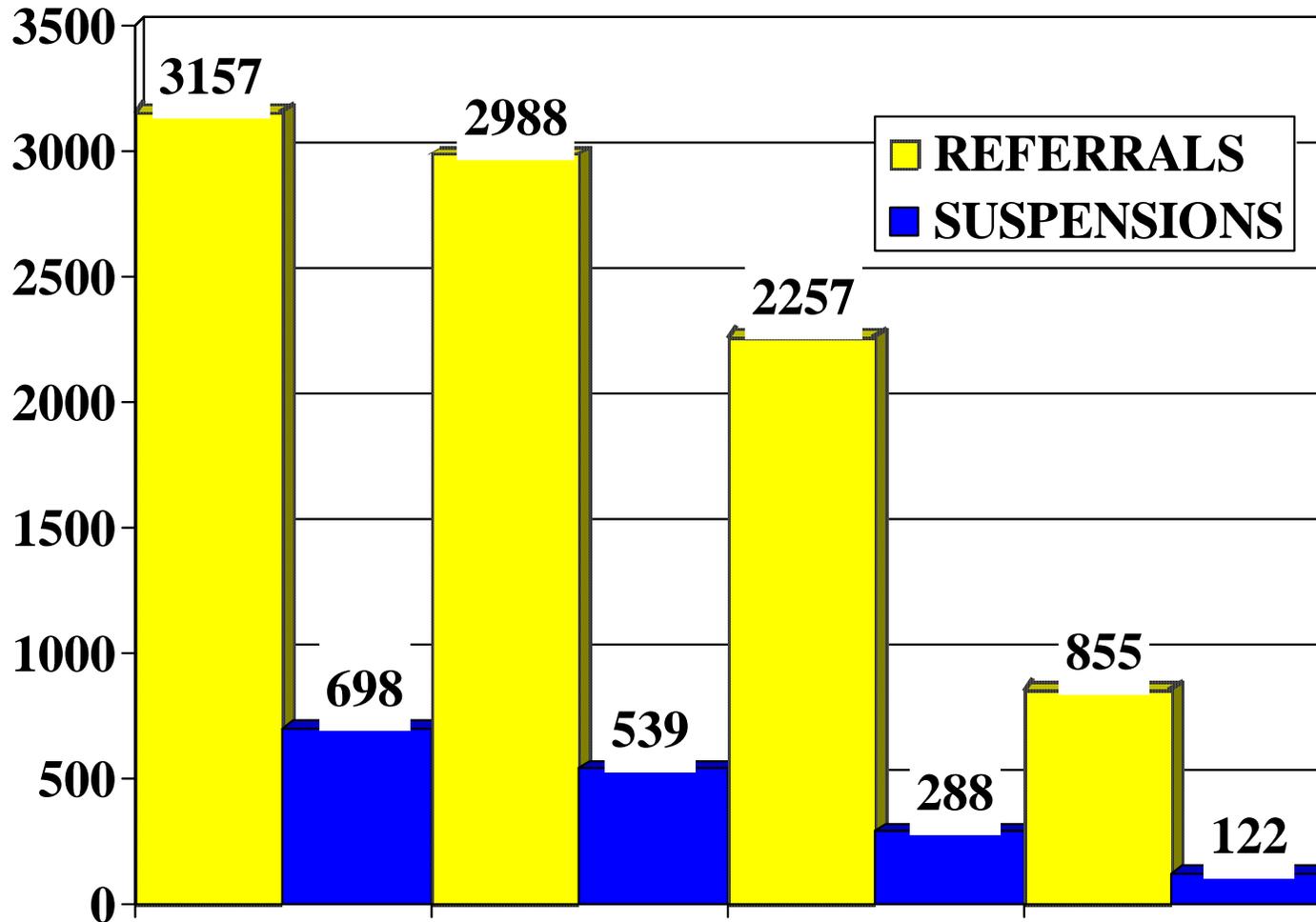
Improved Problem Solving



*Palmer High School played  
a unique role in the  
economic turnaround of the  
downtown business  
community as did the  
business community in the  
renaissance of the school.*

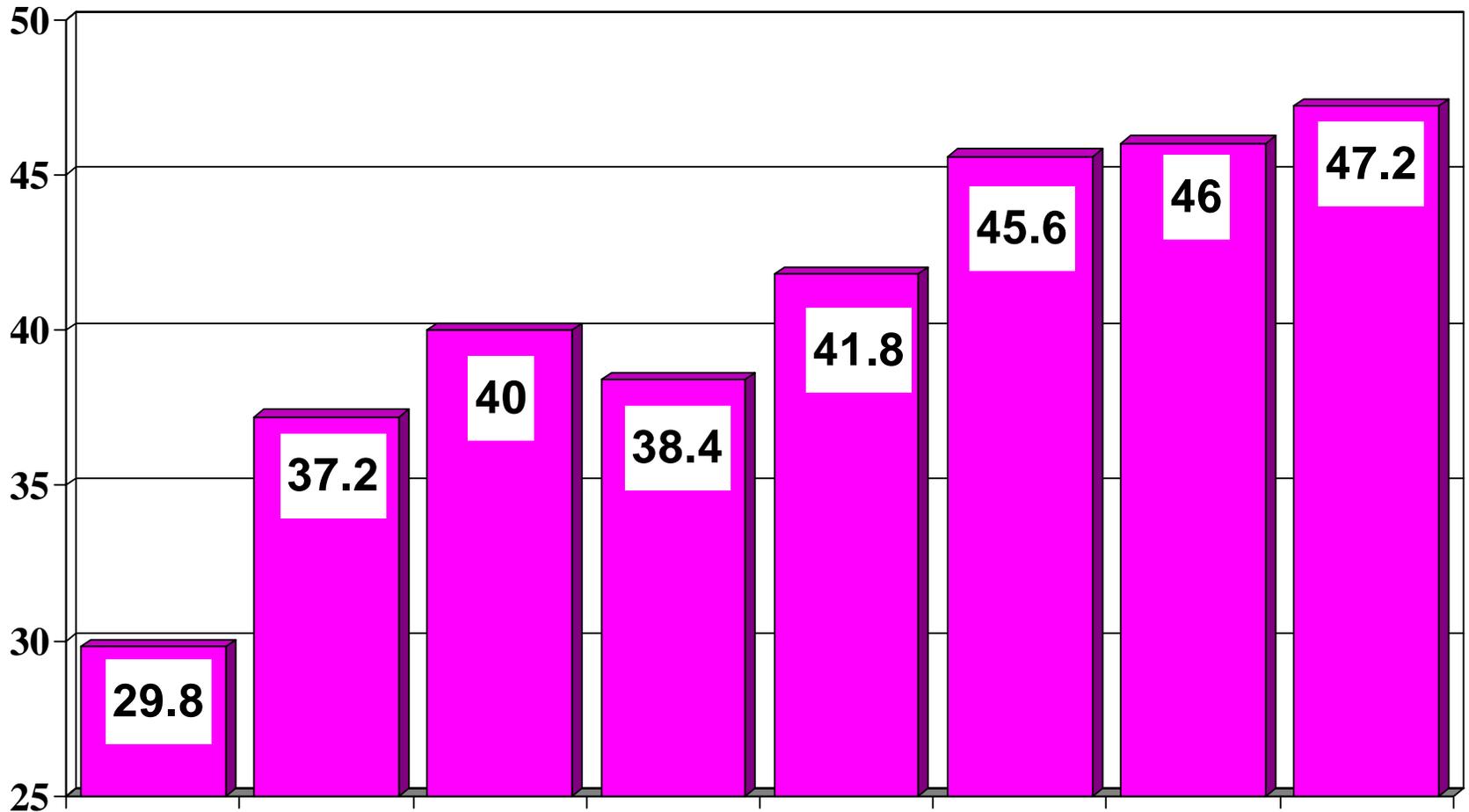
**Denver Post**

# Student Discipline Referrals & Suspensions



# Honor Roll

## Percent of Students Enrolled



***ACCOMPLISHMENT  
WILL PROVE TO BE A  
JOURNEY, NOT A  
DESTINATION.***



*The Council for*  
**Corporate & School**  
**Partnerships**

Dwight D. Eisenhower

*The bend in the  
road is not the end  
of the road,  
unless you fail to  
make the turn.*

# Materials

**Contact Jay Engeln at [engelnj@principals.org](mailto:engelnj@principals.org) for permission to download copies of *A How-To Guide for School/Business Partnerships and/or other related materials.***