

Preparing More Students to
Enter STEM Careers
What does research say?

**Project Lead the Way – Kansas City
Counselors Conference
January 27, 2011**

“Out-innovate,
out-educate, and
out-build”

"We know what it takes to compete for the jobs and industries of our time. We need to out-innovate, out-educate, and out-build the rest of the world. We have to make America the best place on Earth to do business."

President Obama, 2011

"Over the next 10 years, nearly half of all new jobs will require education that goes beyond a high school education."

President Obama, 2011

Georgetown's Center on Education and the Workforce predicts for 2018

Missouri's Need: **59%** = 1.8 million jobs
338,000 STEM jobs

Kansas' Need: **64%** = 1 million jobs
188,000 STEM jobs

"And yet, as many as a quarter of our students aren't even finishing high school." *President Obama, 2011*

According to the Education Equality Project:

On average, an American student drops out of high school once every 26 seconds.

Barely half of African-American and Latino students graduate from high school, with Latinos graduating at 56%, African-Americans at 54%, and their white counterparts at 77%.



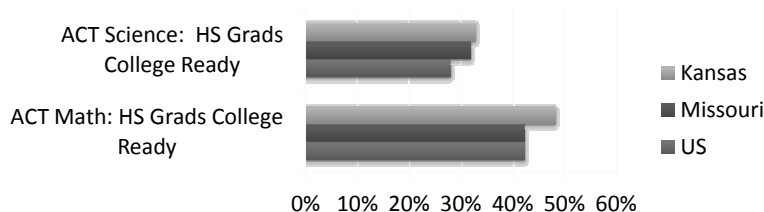
"And yet, as many as a quarter of our students aren't even finishing high school." *President Obama, 2011*

Source: Education Equality Project
GRADUATION RATES



“The quality of our math and science education lags behind many other nations.” *President Obama, 2011*

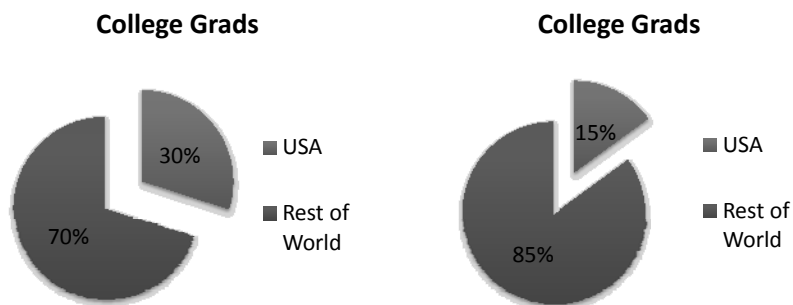
American 15 year olds’ mathematics’ skills **rank 25th** internationally.



Sources: Education Equality Project & 2010 ASTRA

“America has fallen to ninth in the proportion of young people with a college degree.” *President Obama, 2011*

1970 **Now**



Source: Education Equality Project

“America has fallen to ninth in the proportion of young people with a college degree.” *President Obama, 2011*

MISSOURI

2002 College Readiness: 30%
2004 HS Grad direct to College Enrollment: 53%
2005 College Grad (in 6 years): **58%**

KANSAS

2002 College Readiness: 31%
2004 HS Grad direct to College Enrollment: 61%
2005 College Grad (in 6 years): **55%**

Source: Education Equality Project

“And so the question is whether all of us—as citizens, and as parents—are willing to do what's necessary to give every child a chance to succeed.”

President Obama, 2011

**...as
COUNSELORS**



Let's do the MATH

In 2018, how many more STEM employees with post-secondary degrees do we need than we have today?

MO: 86,000

KS: 99,000

If we have approximately 20,000 seniors in our KC metro area today, how many STEM post-secondary graduates do you think we can produce in the next 7 years?



For more information

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