



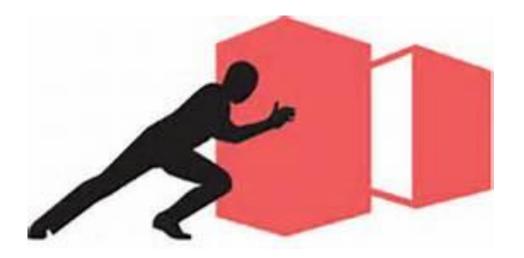
Our mission is to prepare our students to compete and excel in a STEM global workforce.

DeKalb County

www.mcnaires.dekalb.k12.ga.us.com



STEM Education Closing the Gap One Student at a Time



Presented By Kaija Spencer STEM Coordinator

www.mcnaires.dekalb.k12.ga.us.com



Agenda

- What does S.T.E.M. mean? What does S.T.E.M. look like?
- STEM Activity: What is Technology?
- Why S.T.E.M. for at-risk students?
- Where should you start?: SWOT Analysis
- Instructional Leaders vs. STEM Team





S.T.E.M. is . . .

S – Science

T – Technology

E – Engineering

M – Math







What does STEM look like ...













What does STEM look like











What does STEM look like ...











STEM Activity: What is Technology?









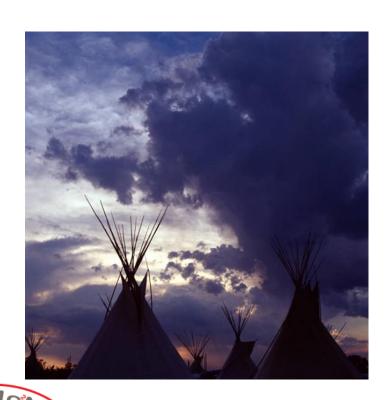




















STEM Activity: What is Technology?

Look inside your bag.

Evaluate each item in the bag.

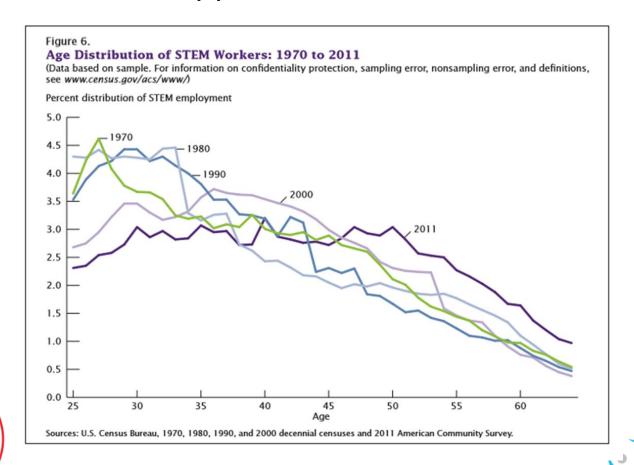
Complete the student side of the Interactive Notebook.

We will share out in 10 minutes.



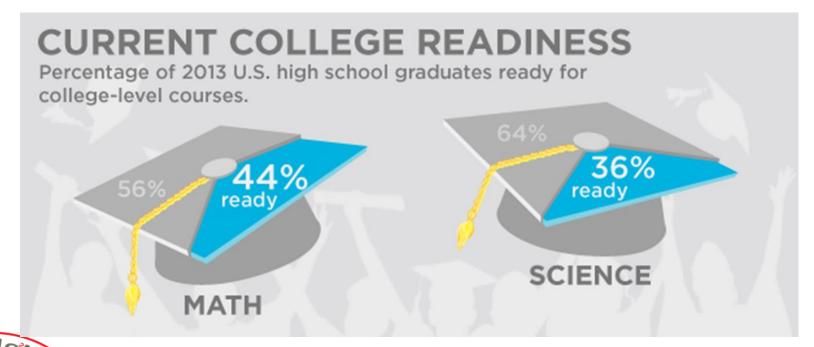






School District



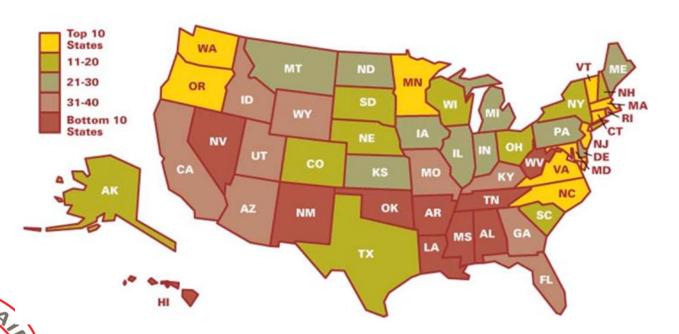








Percentage of Students at the Advanced Level in Math



http://educationnext.org/teaching-math-to-the-talented-map/

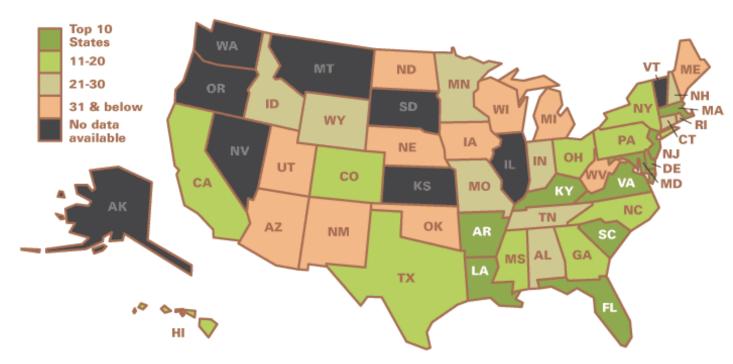
School District





Annual Rate of Growth in Student Achievement in Math, Reading and Science in 41 U.S.

states, 1992-2011

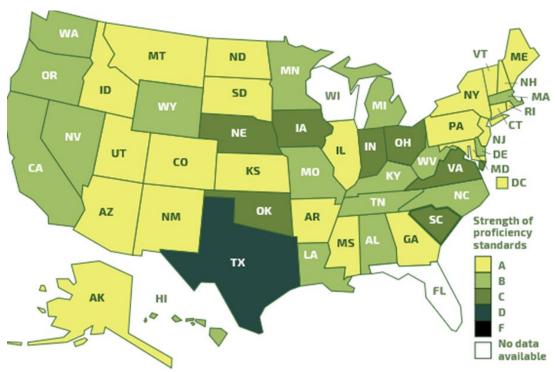


http://educationnext.org/ednext2012/





Rigor of State Proficiency Standards, 2015





http://educationnext.org/state-standards-map-2016/





Additional Data for STEM. . .

National Action Council for Minorities in Engineering, April 2014

National Math + Science Initiative, January 2014

Disparities in STEM Employment by Sex, Race, and Hispanic Origin, 2013







Additional Data for STEM. . .

Let's look at some Additional Data. . . .

US Census 2013
US STEM Careers Statistics
Women in STEM a Gap to Innovation
African Americans in Engineering







Where to begin? S.W.O.T. Analysis

Strengths

Weakness

SWOT

Opportunities

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Threats





Where to begin? Instructional Team vs. STEM Team

Responsibilities

Instructional Team

- District Teaching goals and requirements
- District trainings and implementations
- Resources to support all content areas
- Collection of data
- Teacher support

STEM Team

- STEM planning of Units and builds
- Integration
- STEM field trips
- Business partners
- STEM focused trainings
- STEM Outreach
- STEM resources and supplies
- Teacher Support







THANK YOU!

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