The Social and Behavioral Sciences in K-12 Education

NASEM/DBASSE/RT

(@ArthurLupia)

Acronyms

NASEM

 National Academies of Science, Engineering and Medicine

DBASSE

Division of Behavioral and Social Sciences and Education

RT

 NASEM Roundtable on the Communication and Use of Social and Behavioral Science

Logistics

We are taping today's proceedings.

- We are preparing a brief.
 - Please suggest interested audiences to Holly,
 Melissa, or Skip

Acknowledgements

- Spencer Foundation
- American Educational Research Association
- American Psychological Association
- Univ. Michigan/Institute for Social Research
- National Academies Presidents Committee
- SAGE Publications
- Westat

Acknowledgements

DBASSE: Bob Hauser and Mary Ellen O'Connell

RT: Felice Levine and Howard Kurtzman

NASEM: Melissa Welch-Ross and Holly Rhodes

The RT



Goals

Why teach SBS in K-12?

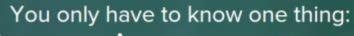
What does the public believe about SBS?

 What are the desired outcomes of SBS-focused K-12 activities?

 Which current standards and guidelines are influential?

BACKGROUND





You can learn anything

For free. For everyone. Forever.

Start learning now

Teachers, start here

Parents, start here

Anything?

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Subjects ▼ Q Math by subject			Donate Sign in / Sign u
	Math by grade	Computing	Test prep
Early math	K–2nd	Computer programming	SAT
Arithmetic	3rd	Computer science	MCAT
Algebra	4th	Hour of Code	GMAT
Geometry	5th	Computer animation	IIT JEE
Trigonometry	6th		NCLEX-RN
Statistics & probability	7th	Arts & humanities	
Calculus	8th	Art history	College Admissions
Differential equations	High school	Grammar	
Linear algebra		Music	
Math for fun and glory	Science & engineering	US history	
	Physics	World history	
	Chemistry		
	Organic chemistry	Economics & finance	
	Biology	Microeconomics	
	Health & medicine	Macroeconomics	
	Electrical engineering	Finance & capital markets	
	Cosmology & astronomy	Entrepreneurship	

Levine et al - NSF Plan of Action

- "The social, behavioral, and economic (SBE) sciences are largely absent from the K-12 curriculum...
- Each year, some 53 million students attend elementary and secondary schools in the United States... they receive almost no exposure to the [SBS] sciences...
- [SBS courses] are few in number in comparison to natural science offerings."

OBSSR. Behavioral and Social Sciences in STEM

 Behavioral and social sciences are used not only to improve the teaching of science and math, but must also be recognized as core STEM sciences."

Lessons from Previous Efforts

- 1993. AAAS. Project 2061 expectations for "learning about human society" in K-12
- 2004. NSF. Training in SBE. A Plan for Action.
- 2010. APA. Psychology as a Core STEM Discipline.
- 2011. NIH. Behavioral and Social Sciences in STEM Education. NIH.
- 2011. NRC. Planning Meeting on Teaching SBE in K-12.
- 2013. Next Gen Science Standards
- 2013. The C3 Framework for Social Studies State Standards
- 2014. NSF. Education and Training in the Social and Behavioral Sciences

2011 NRC Planning Meeting Recommendations

Define/articulate goals and rationales

Identify approaches to curricular inclusion

Develop and strengthen key relationships

Build capacity

Goals

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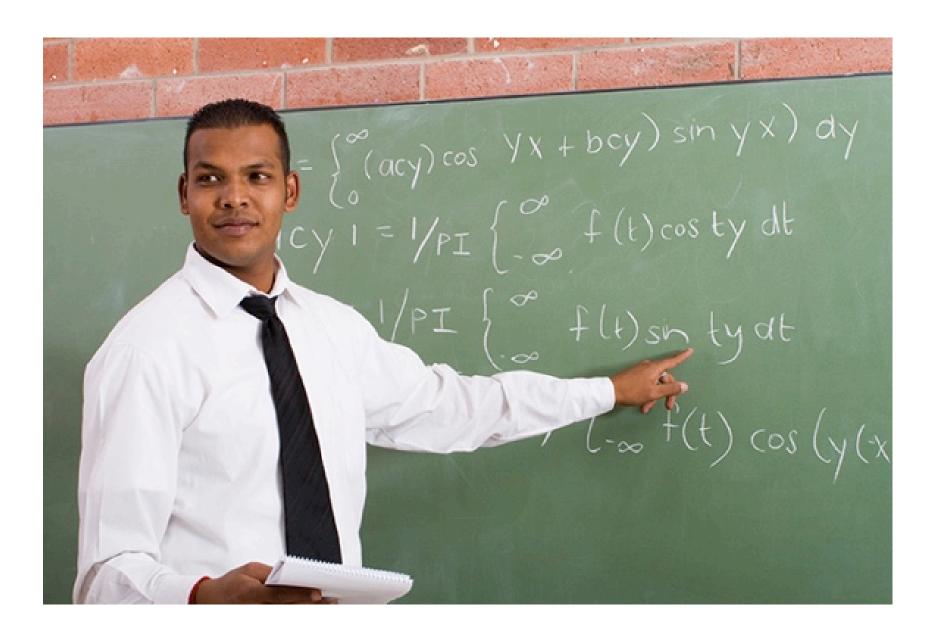
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HOW?

STAKEHOLDER PERSPECTIVES







Pressures Affecting K-12

Uncertain state support

Poverty

- Many groups influence curricula & standards
 - NCLB
 - ETS & AP



http://static.guim.co.uk/sys-images/Guardian/Pix/pictures/2013/7/23/1374573546005/Pile-of-smart-phones-008.jpg



Prospective Adopters

What are their objectives?

 What practical constraints exist for those who would consider change?

NEXT STEPS

Desired Outcomes

 Educational materials and strategies that can help students make better decisions in civic, personal, community, work, and family contexts.

 Appreciation of how SBS methods produce better understanding of human and social phenomena.

Greater interest in pursuing SBS careers.

Effective Action

- What can be done to more effectively serve students, teachers and school boards over the next
 - 2 years
 - 5 years
 - 10 years
- Can we develop new and more effective ways to serve these critical constituencies?

Outline

- 10:00 Public Perceptions of SBS
 - Sheri Roder, Horizon Media, presenter
- 10:30 Disciplinary Perspectives Panel
 - Anthropology, Economics, Political Science, Psychology, Sociology
 - Howard Kurtzman, APA/RT, moderator
- 11:30 Working Lunch: Proposals for Progress
- 12:15 Education Perspectives Panel
 - Matt Krehbiel, Achieve.org
 - Lawrence Paska, National Council for the Social Studies
- 1:00 Open Discussion of Next Steps

Thank you for working with us to improve education.

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