Page 15. Replace the first 3 bulleted items under K-12 Education with the following:

- Fewer than one-third of US 8th-grade students performed at or above a level called “proficient” in mathematics; “proficiency” was considered the ability to exhibit competence with challenging subject matter. Alarmingly, about one-fifth of the 4th graders and one-third of the 8th graders lacked the competence to perform even basic mathematical computations.\(^{18}\)
- In 1999, 69% of US 5-8th-grade students received instruction from a mathematics teacher who did not hold a degree or certification in mathematics.\(^ {19}\)
- In 2000, 93% of students in grades 5–8 were taught physical science by a teacher lacking a major or certification in the physical sciences (chemistry, geology, general science, or physics).\(^ {20}\)

Page 15. Replace the 5th bulleted item under K-12 Education with the following:

- US 15-year-olds ranked 27th out of 39 countries that participated in a 2003 administration of the Program for International Student Assessment (PISA) examination, which assessed students’ ability to apply mathematical concepts to real-world problems.\(^ {22}\)

Page 16. Replace the 6th bulleted item under Higher Education with the following:

- The proportion of bachelor's degrees in physics to total degrees awarded was twice as high the year before Sputnik, deemed a time of dangerous educational neglect, as in 2004.\(^ {35}\)
Page 16. Replace the first bulleted item under Research with the following:

- In 2001 (the most recent year for which data are available), US industry spent more on tort litigation than on research.\textsuperscript{37}

Page 17. Replace the first bulleted item at the top of the page with the following:

- Federal funding of research in the physical sciences, as a percentage of gross domestic product (GDP), was 45\% less in fiscal year (FY) 2004 than in FY 1976.\textsuperscript{40} The amount invested annually by the US federal government in research in the physical sciences, mathematics, and engineering combined equals the annual increase in US healthcare costs incurred every six weeks.\textsuperscript{41}

Page 19. Add the following information to footnote 14:


Page 20. Replace footnote 35 with the following:

\textsuperscript{35}American Physical Society. 2007. APS News. August/September.

Page 20. Add the following information to footnote 37.


Page 20. Replace footnote 40 with the following:


Page 20. Replace footnote 41 with the following: