2008 Brown Center Report on American Education: How Well Are Students Learning?

The Use and Misuse of International Assessments Tom Loveless Senior Fellow, Brown Center on Education Policy February 25, 2009

BROOKINGS

Powerful Consortium Supports Benchmarking to PISA (NGA, Achieve, CCSSO)

"As governors, we must have consistent, comparable data in order to make informed decisions about our state's education system. Benchmarking will help us identify the qualities and characteristics that make up education systems that best prepare students for success. Understanding these policies gives us the option of incorporating the best of them into our own educational structure."

Sonny Perdue, Governor of Georgia, co-chair, NGA Advisory Group on Benchmarking, 9/8/08

















Correlations of Attitudinal Variables and Stud	ent Performance	Table
on PISA 2006 (Rank-ordered by between-nation coefficient)		1-2
Variable	Between-Nation (Brown Center)	Pooled Nations (OECD)
Students' awareness of environmental issues	0.66	0.43
Self-efficacy in science	0.23	0.33
Students' responsibility for sustainable development	-0.24	0.18
Students' level of concern for environmental issues	-0.48	0.01
General value of science	-0.49	0.22
Support for scientific enquiry	-0.52	0.25
Students' optimism regarding environmental issues	-0.52	-0.17
Personal value of science	-0.72	0.12
Self-concept in science	-0.73	0.15
Enjoyment of science	-0.76	0.19
Instrumental motivation to learn science	-0.77	0.09
Students' science-related activities	-0.79	0.04
Interest in scientific topics	-0.80	-0.06
General interest in science	-0.82	0.13
Future motivation to learn science	-0.83	0.08

BROKINGSJusticityGoing Beyond the Data: Does self-efficacy
lead to achievement?"PISA cannot show to what extent lack of
self-efficacy is a cause or an effect of
weakness in scientific literacy, but this
strong association shows that building
students' confidence in their ability to
tackle scientific problems is an important
part of improving scientific performance."PISA 2006, vol. 1, p. 165











Eliciting Views on Policies is Inappropriate for an International Assessment

- Reflects Political Judgment
- Error is compounded by interpreting students' responses as reflecting environmental responsibility.
- NAEP constrained. Why not PISA?





