Comparison of International & NAEP Assessments

Characteristic	TIMSS	ICILS	PISA	TALIS	NAEP
Grade or Age	Grades 4 & 8	Grade 8	15-year-olds	Teachers of grades 7, 8 & 9, as well as their principals	Grades 4, 8 & 12
Subjects or Content	Math & Science	Computer & Information Literacy; Computational Thinking	Math, Reading & Science Literacy	Teachers, teaching & learning environments	Reading, Math, Science & Others
Typical U.S. Assessment Window	March – June	March - May	October - November	March - May	January - March
Components	Students: CA & SQ Teachers: SQ School: SQ	Students: CA & SQ Teachers: SQ School: SQ ICT Coordinator: SQ	Students: CA & SQ Teachers: SQ School: SQ	Teachers: SQ School: SQ	Students: CA & SQ Teachers: SQ School: SQ
TOTAL Administration Time	~ 2-2.5 hours for both CA & SQ	~ 3 hours for both CA & SQ	~ 3 hours for both CA & SQ	~ 1 hour (teachers) ~45 min (principals)	~ 1.5-2 hours for both CA & SQ
U.S. Sample Sizes: Students Schools	~ 8,800 per grade ~ 280 per grade	~ 6,800 ~ 270	~ 4,800 ~ 160	~2,500 teachers ~165 schools & principals	~ 148,000 per subject & grade ~ 7,500 per subject & grade
Frequency	Every 4 years	Every 5 years	Every 3 years	Every 6 years	Every 2 years
Initial Year (I) / Most Recent Year (R)	I: 1995 R: 2019	I: 2013 R: 2018	I: 2000 R: 2018	I: 2008 R: 2018	I: early 1990s R: 2019
Content Assessed	Internationally curriculum-based	Computer & information literacy	Real-world applications of knowledge	NA	U.S. curriculum- based
Scale(s)	0-1,000	0-700	0-1,000	NA	0-300 or 0-500, varying by subject & grade
Sponsoring Organization	***************************************	IEA Association for the cational Achievement)	OECD (Organization for Economic Co-operation and Development)		NCES + NAGB (National Assessment Governing Board)

TIMSS, ICIL, PISA, and TALIS are all international assessments, whereas NAEP is a national assessment.

PISA is designed to measure "literacy" broadly, while the Trends in International Mathematics and Science Study (TIMSS) and the National Assessment of Educational Progress (NAEP) have stronger links to curriculum frameworks and seeks to measure students' mastery of specific knowledge, skills, and concepts.

The content of PISA is drawn from broad content areas, such as living systems and physical systems for science, in contrast to more specific curriculum-based content such as biology or physics. Students participating in PISA use their reading, mathematics and science knowledge and skills to meet real-life challenges.