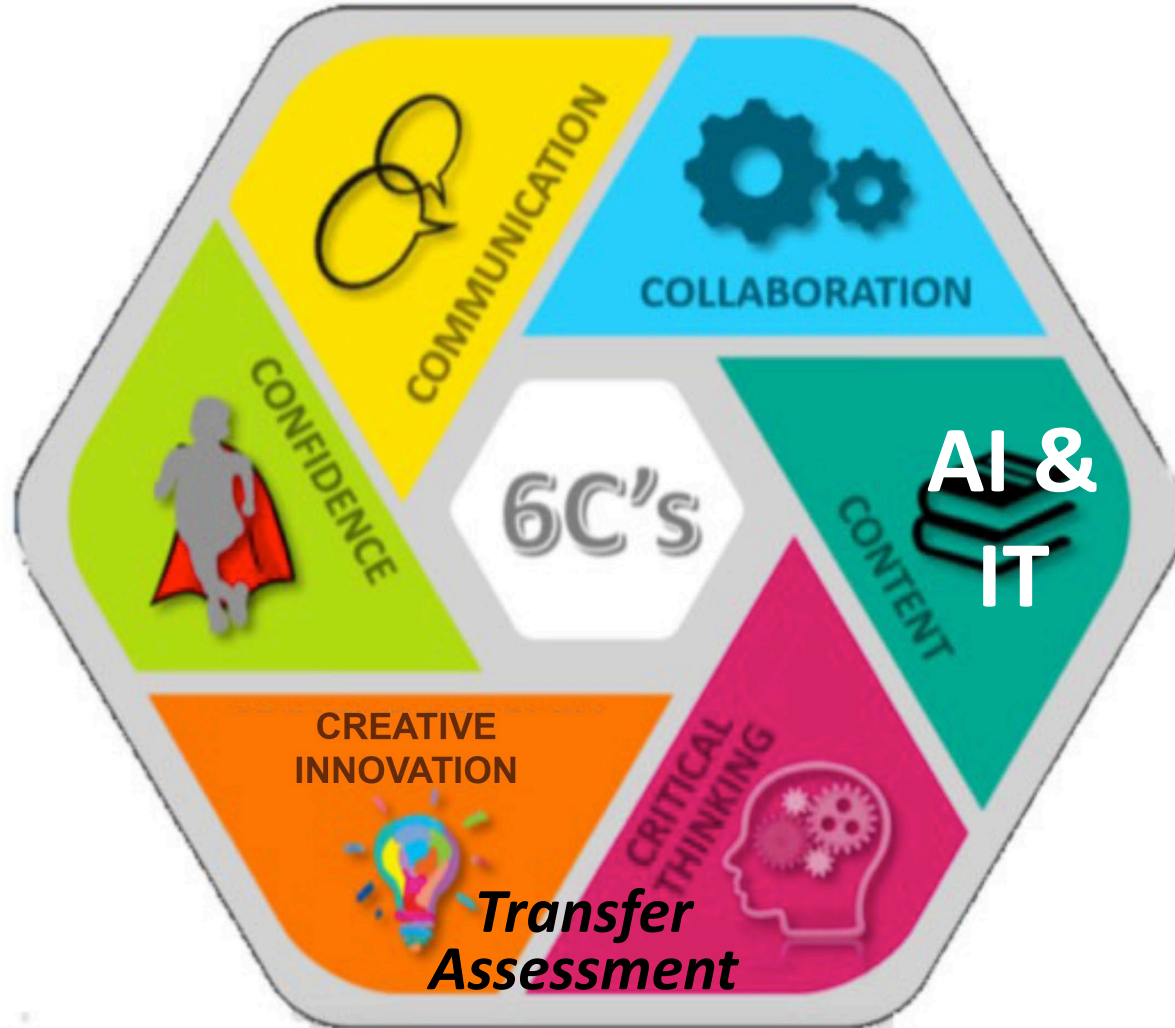
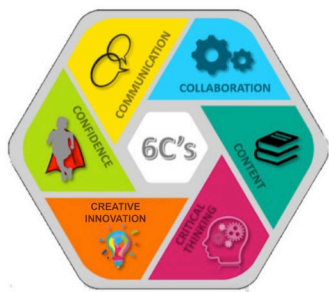


21st Century Skills Are Tech-Proof

Risk-taking
Ambiguity
Change



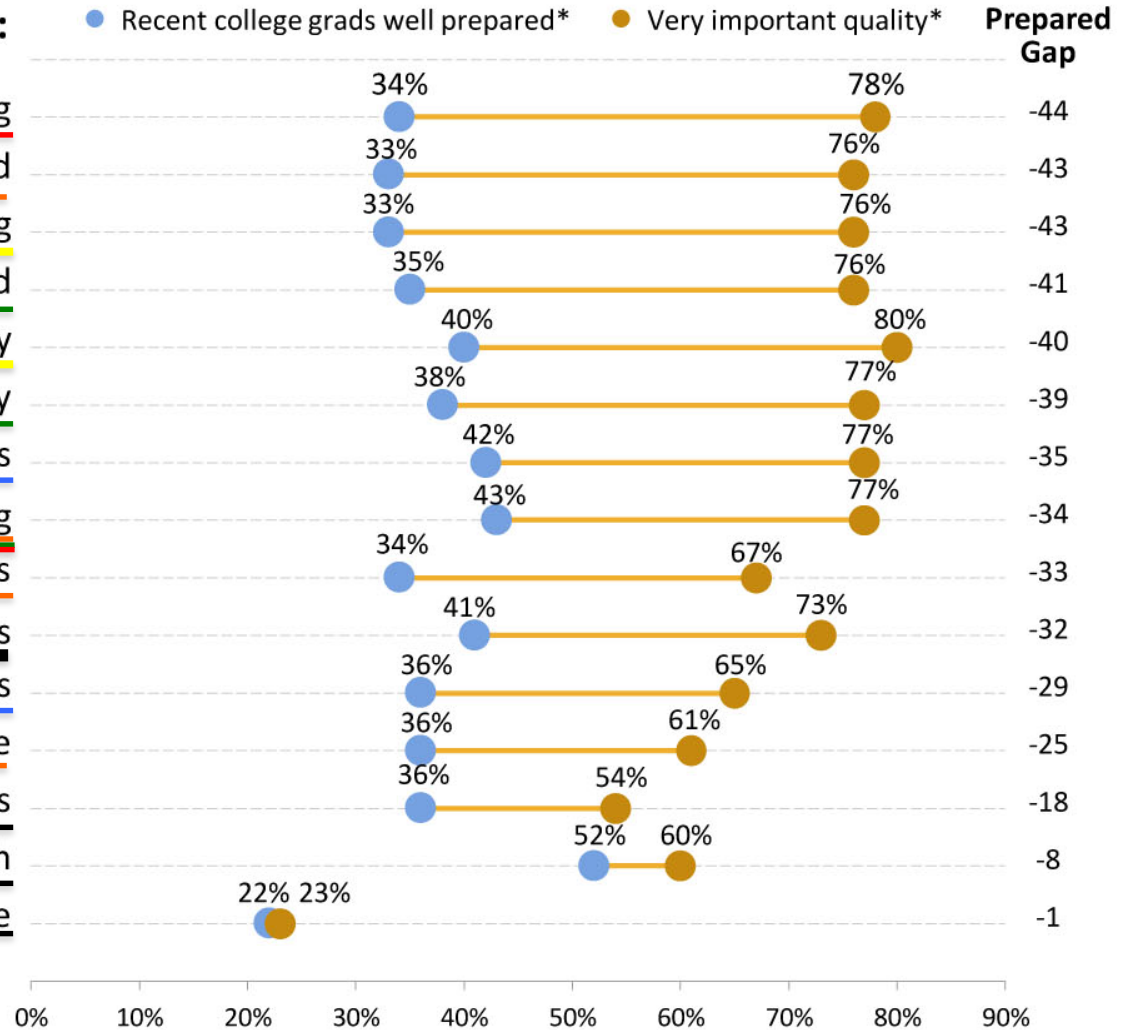
**Proficiency & Transfer Requires Many Years of
Deliberate Practice in Multiple Subjects**



Today's Employers Find New Hires Fall Short in Most Human-Specific Skills

Among business execs:

- Critical thinking/analytical reasoning
- Apply knowledge/skills to real world
- Communicate effectively in writing
- Self-motivated
- Communicate effectively orally
- Able to work independently
- Able to work effectively in teams
- Ethical judgment/decision-making
- Able to analyze/solve complex problems
- Find, organize, evaluate info: multiple sources
- Solve problems w/people of diff. backgrounds
- Able to innovate/be creative
- Able to work with numbers/stats
- Stay current on changing tech
- Proficiency in foreign language

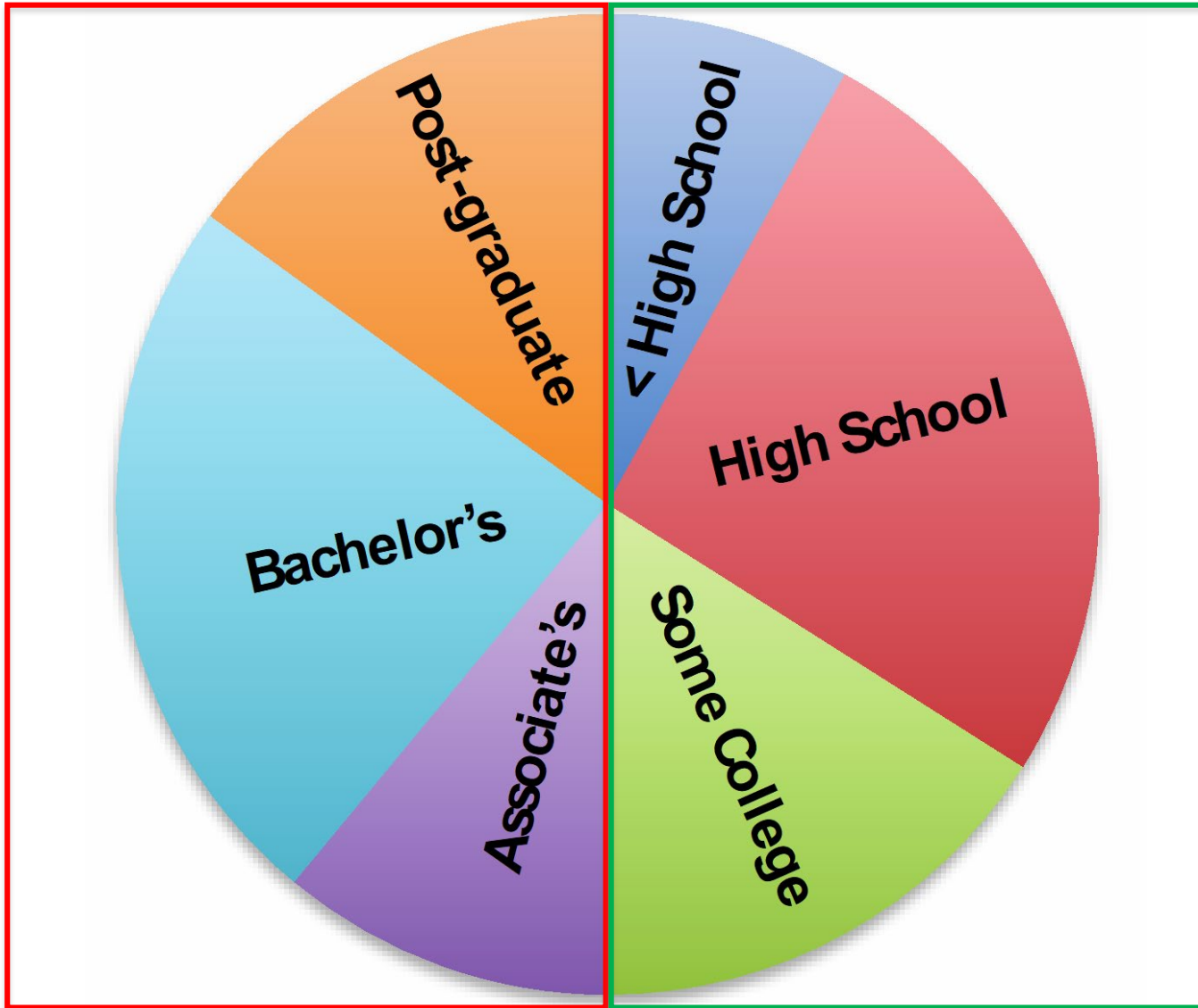


Hart Research for
Association of American Colleges and Universities.

* 8-10 ratings on a 0-to-10 scale

Are US Students Career-Ready?

American Association of Colleges & Universities
Governor.s Workforce Development Board



Are US High School Seniors College-Ready?

Minnesota P-20 Education Partnership

US is Mid-Pack or Below for 21st Century Skills

Higher Order Thinking is not Taught in College

Example: between first semester freshmen and 4-year graduates, Critical Thinking has only improved by 0.5 Standard Deviations.

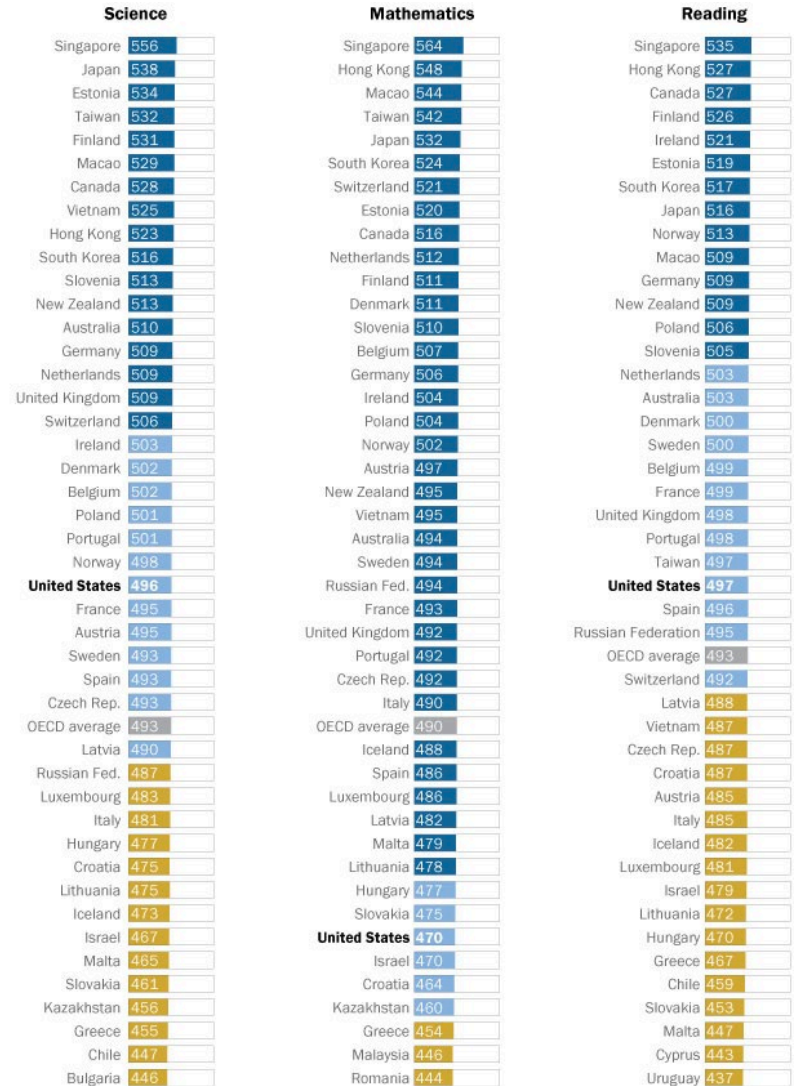
Over 70 studies with a total of 20,000 participants.

Creative Problem Solving

American adults (age 16-65) tied for last among developed countries in problem solving in technology-rich environments.

2013 Survey of Adults Skills, PISA

K-12 Education - PISA



Introducing 21st Century Skills into Schools

- Networked Learning Communities (NLCs)
 - Public School districts, charter & private schools
 - ✓ NLCs will have agency
 - Some schools have strong programs already
 - ✓ Share successes, challenges & solutions
- Collaborate with 21st Century Skills Committee
 - Connect scholars & research with practitioners
 - ✓ Committee members have subject matter experts
 - ✓ Has a national network of experts and other successful programs
 - Focused research-practice partnerships
- Short Term Goal: Create or enhance pilot projects
- Long Term Goal: Expand to multiple subjects

Introducing 21st Century Skills into Schools

21st Century Skills Committee

David LaPorte, Professor
Biochemistry, CBS, U of MN
Critical Thinking

Jennifer Kunze, Director
U of MN Ramp up for Readiness

Megan Rozowski, Director of Research and Policy
Minnesota Private Colleges Council

Michael C Rodriguez, Dean
U of MN College of Education

Lucy Payne, Associate Professor
University of St. Thomas, School of Education
Professional Learning Communities

Dale Blyth, Professor Emeritus
Extension Center for Youth Development, U of MN
Social/Emotional Learning

Steve Kelley, Senior Fellow
Hubert Humphrey School of Public Affairs, U of MN
Former Minnesota State Representative and Senator
Educational Assessments

Brad Hokanson, Professor
College of Design, U of MN
Creativity and Critical Thinking

Kim Gibbons, Director
UMN Center for Applied Research and Educational
Improvement

Seth Thompson, Hub Director
InSciEd Out, College of Biological Sciences, U of MN

Networked Learning Community to date

Noel Schmidt, Ph.D., Superintendent
Virginia Public Schools
Iron Range

Jason Berg, Superintendent
Farmington School District

Joel VerDuin, Chief Technology and Information Officer
Anoka-Hennepin School District

Barb Duffrin, Superintendent
Mahtomedi Public Schools

Patrick Walsh, Superintendent
BBE Public Schools

Renee Corneille, Superintendent
St. Anthony New Brighton Public Schools* –

Stacie Stanley, Superintendent
Edina Public Schools

Jeff Ronneberg, Superintendent
Spring Lake Park Public Schools.

Steven Unowsky, Superintendent
Richfield Public Schools

8 more expressed strong interest