



CONNECTICUT STATE DEPARTMENT OF EDUCATION

Rethinking High School Mathematics to Prepare Students for College and Career

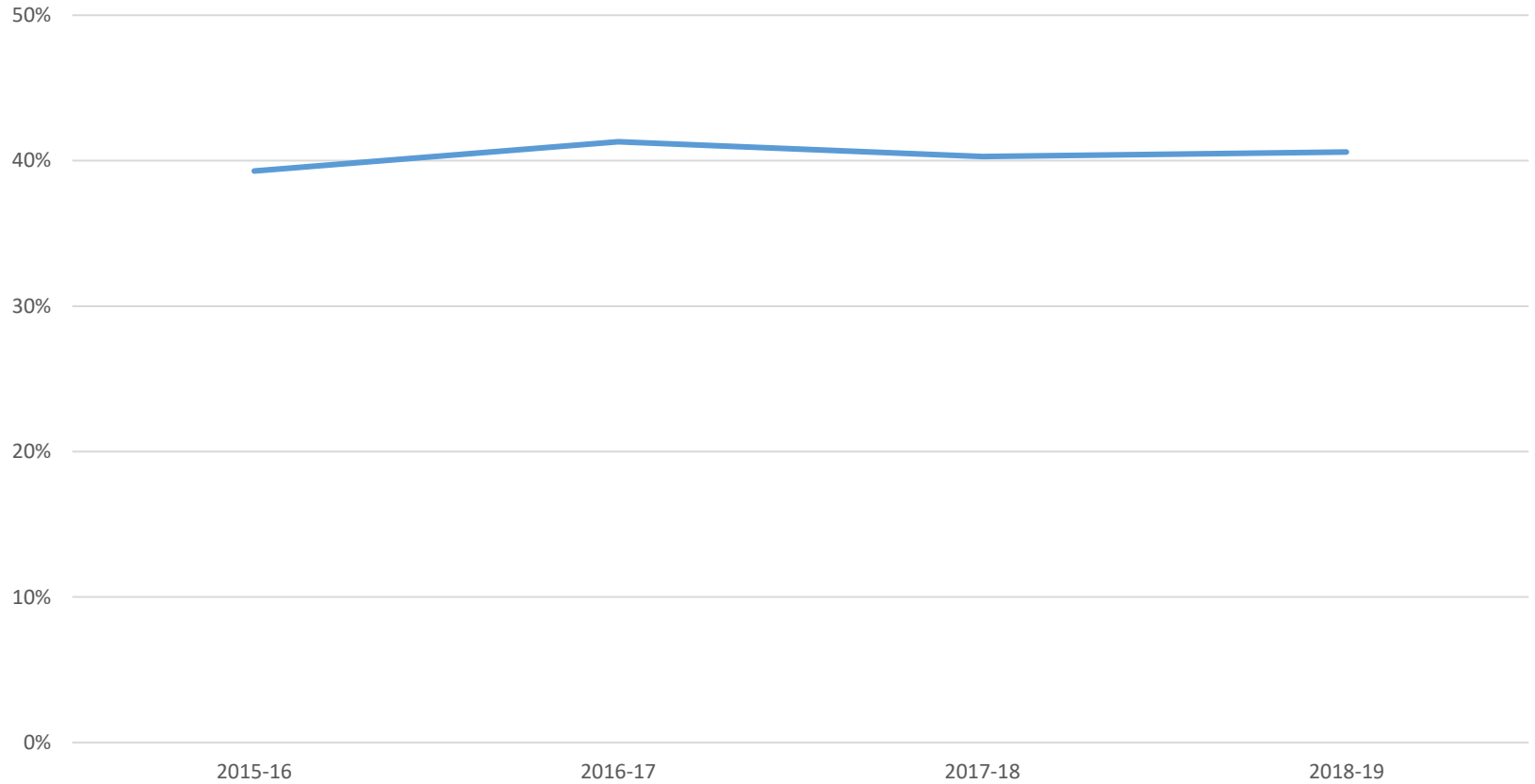
The Need

From High School to the Workforce

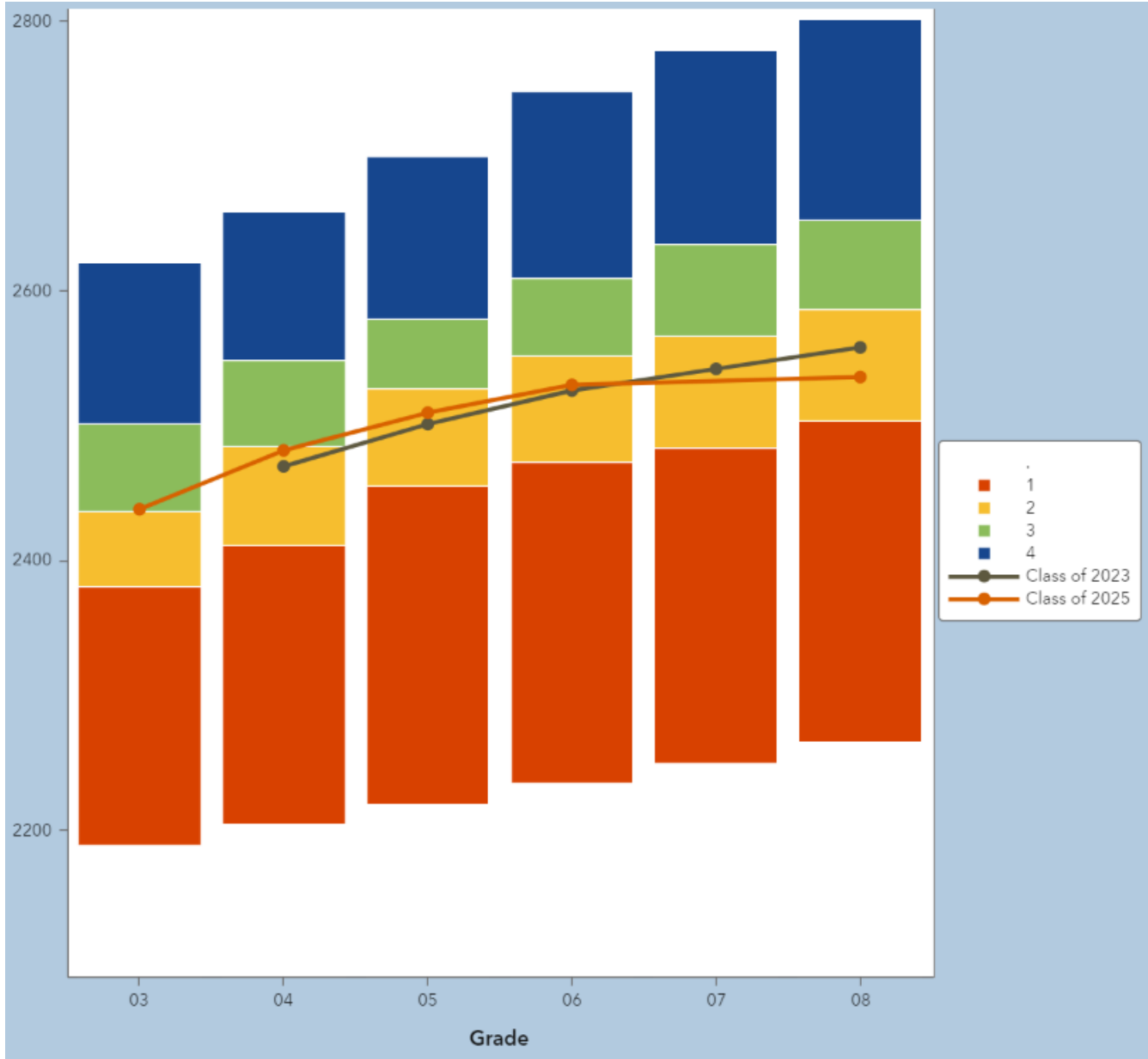


High School Performance

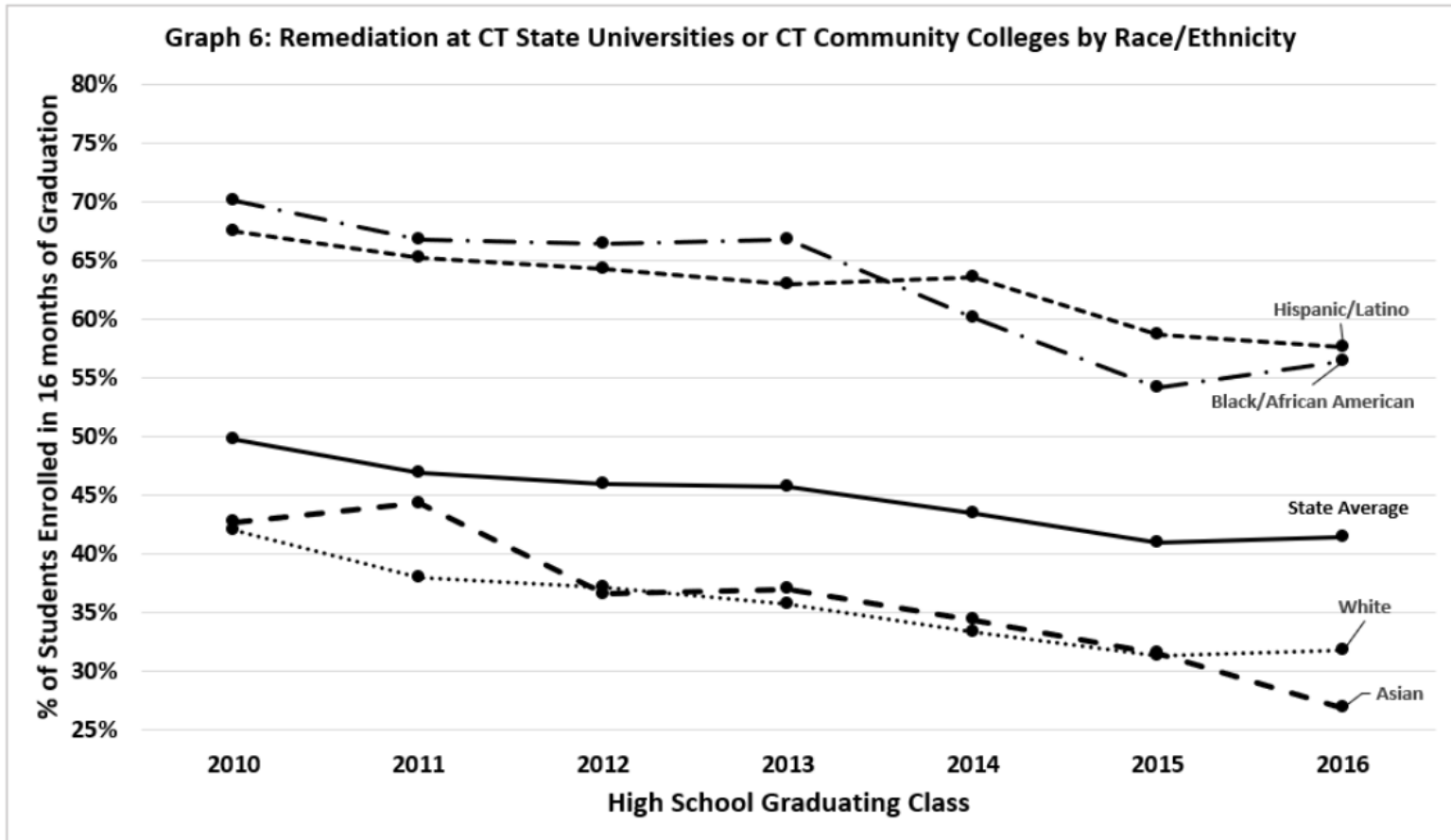
State of Connecticut



Pandemic Impact







College Remediation



The Future of Jobs

Top 10 skills of 2025

Type of skill

-  Problem-solving
-  Self-management
-  Working with people
-  Technology use and development

-  Analytical thinking and innovation
-  Active learning and learning strategies
-  Complex problem-solving
-  Critical thinking and analysis
-  Creativity, originality and initiative
-  Leadership and social influence
-  Technology use, monitoring and control
-  Technology design and programming
-  Resilience, stress tolerance and flexibility
-  Reasoning, problem-solving and ideation

Source: Future of Jobs Report 2020, World Economic Forum.



The Opportunity

Graduation Requirements Previous Statute

Science, technology,
engineering, and
mathematics: at least eight
credits, including:

- At least 4 credits in mathematics, including algebra I, geometry, and algebra II or probability and statistics
- At least 3 credits in science, including 1 credit in life science and 1 in physical science
- At least 1 credit in science, technology, engineering, and mathematics elective

Graduation Requirements Current Statute

Science, technology,
engineering, and
mathematics: nine credits



Three Flexibilities

- Content requirements (broad locally defined buckets of humanities, STEM) as long as they are aligned to State standards (or National standards where corresponding state standards have not been adopted)
- Demonstrating mastery through multiple pathways
- [Teacher certification flexibilities](#)



Roundtable Protocol

- The districts:
 - Clinton
 - Fairfield
 - Wallingford
- The process
 - Each table for 20 minutes
 - Table leader will share the district experience
 - Opportunity for Q&A
- Finish with a large group debrief

