

Technical Advisory Panel Meeting

February 11, 2021

Agenda



- Welcome & New Member Introductions Elena & Dan
- Accountability Updates— Marie Huchton/Lisa Medler
- PWR Calculations Amanda Callinan/Josh Perdue
- Future Items, Public Comments & Closing Elena & Dan



Welcome & Introductions



Welcome!

 The purpose of the TAP is to provide non-binding technical recommendations to CDE regarding the Colorado Growth Model, state accountability, and other topics as needed.

TAP Members Roll Call & Introductions

Meeting Logistics:

- Non-members please add your Name/Affiliation to the chat box.
- Everyone please mute your sound.
- We ask all non-TAP members to hold any comments until the end of the meeting. We do this to ensure we have sufficient time to address all meeting agenda items.





Accountability Updates

Marie Huchton & Lisa Medler







New Postsecondary & Workforce Readiness Sub-Indicators: Calculations & Denominator

Amanda Callinan & Josh Perdue





Overview of Current PWR Indicator



• The PWR indicator is included within the high school and district performance frameworks. This indicator contributes 30% of the points that comprise the overall score. Currently, the PWR indicator consists of five sub-indicators.

PWR 30%

Achievement 30%

Growth 40%

PWR Indicator: Points by Sub Indicator & Level

High Schools/District	
SAT EBRW (8 points): Mean Scale Score	
[All Students (4) & Disaggregated (1 each)]	
SAT Math (8 points): Mean Scale Score	
[All Students (4) & Disaggregated (1 each)]	
Graduation (16 points): Rate	
[All Students (8) & Disaggregated (2 each)]	
Dropout (16 points): Rate	
[All Students (8) & Disaggregated (2 each)]	
Matriculation (4 points): Rate	
[All Students]	



Two New PWR Sub-Indicators



Implementation of two new PWR sub-indicators

- HB18-1019
 - Successful completion of AP, IB, and/or Concurrent Enrollment for non-ELA and non-Math courses.
 - AP examination score of 3 or higher
 - IB examination score of 4 or higher
 - CE course grade of B or higher
- SB17-272
 - Higher achievement levels in ELA and Math, as defined by the State Board, on certain graduation guidelines measures (Accuplacer, ACT, ACT Work Keys, AP, ASVAB, Concurrent Enrollment, IB, SAT).



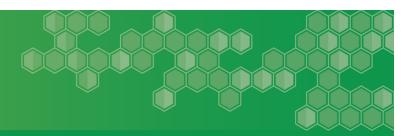
Colorado Revised Statues, 22-11-204, Performance Indicators

(V) Beginning in the 2020-21 school year, the percentage of students enrolled in the public high school who demonstrate college and career readiness, based on the demonstration options available to the students enrolled in the public high school, at the higher achievement level adopted by the state board that indicates a student is prepared, without needing remediation, to enroll in general education core courses;

(VI) Beginning in the 2020-21 school year, the percentage of students enrolled in the public high school who successfully complete an advanced placement course in a subject other than English language arts or math and earn a score of three or higher on the end-of-course advanced placement exam, the percentage of students who successfully complete a concurrent enrollment course in a subject other than English language arts or math and earn a grade of "B" or higher in the course, and the percentage of students who successfully complete an international baccalaureate course in a subject other than English language arts or math and earn a score of four or higher.



Data Sources, HB18-1019



For the non-ELA, non-Math measure, we would obtain examination scores directly from each respective vendor.

Relevant Subject Categories and Number of Courses		
Advanced Placement	International Baccalaureate	
The Arts (3)	The Arts (5)	
History and Social Sciences (9)	Individuals and Societies (10)	
Sciences (7)	Sciences (6)	
World Language and Cultures (8)	Language Acquisition (7)	

Continuing to research our options for concurrent enrollment completion data.





Data Sources, SB17-272



For the ELA and Math higher achievement measure, we would obtain examination scores from the Graduation Guidelines data collection:

MENU OF OPTIONS: This menu lists the minimum scores required.

ACCUPLACER		
Classic	ENGLISH 62 on Reading Comprehension OR 70 on Sentence Skills	MATH 61 on Elementary Algebra
Next	ENGLISH 241 on Reading OR 236 on Writing	MATH 255 on Arithmetic (AR) OR 230 on Quantitative Reasoning, Algebra, and Statistics (QAS)

ACCUPLACER is a computerized test that assesses reading, writing, math and computer skills. The results of the assessment, in conjunction with a student's academic background, goals and interests, are used by academic advisors and counselors to place students in college courses that match their skill levels.

ACT	
ENGLISH	MATH
18 on ACT English	19 on ACT Math

ACT is a national college admissions exam. It measures four subjects – English, reading, math and science. The highest possible score for each subject is 36.

ACT WorkKeys – National Career Readiness Certificate	
ENGLISH	MATH
Proper or higher	Bronzo as highes

ACT WorkKeys is an assessment that tests students' job skills in applied reading, writing, mathematics and 21st centrury skills. Scores are based on job profiles that help employers select, hire, train, develop and retain a high-performance workforce. Students must score at the bronze level (at least 3) in all three assessments - Applied Mathematics, Graphic Literacy and Workplace Documents, and they will earn the ACT's National Career Readiness Certificate

Advanced Placement	
MATH	
2	
	MATH 2

AP exams test students' ability to perform at a college level. Districts choose which AP exams will fulfill this menu option. Scores range from 1 to 5 (highest).

ASVAB	
ENGLISH	MATH
31 on the AFQT	31 on the AFQT

The Armed Services Vocational Aptitude Battery (ASVAB) is a comprehensive test that helps determine students' eligibility and suitability for careers in the military. Students who score at least 31 are eligible for service (along with other standards that include physical condition and personal conduct). Students who take the ASVAB are not required to enlist in the military.

Concurrent Enrollment	
ENGLISH	MATH
Passing grade per district and	Passing grade per district and

higher education policy

Concurrent enrollment provides students the opportunity to enroll in postsecondary courses, simultaneously earning high school and college credit. School districts and institutions of higher education each determine passing grades for credit and concurrent enrollment. An eligible concurrent enrollment course is 1) the prerequisite directly prior to a credit-bearing course or 2) a credit-bearing course, and 3) governed by a district-level cooperative agreement or MOU.

higher education policy

District Capstone	
ENGLISH	MATH
Individualized	Individualized

A capstone is the culminating exhibition of a student's project or experience that demonstrates academic and intellectual learning. Capstone projects are district determined and often include a portfolio of a student's best work.

Industry Certificate	
ENGLISH	MATH
Individualized	Individualized

Industry certificates are credentials recognized by business and industry. They are district determined, measure a student's competency in an occupation and they validate a knowledge base and skills that show mastery in a particular industry.

International Baccalaureate (IB)		
		ENGLISH
		4
		4

IB exams assess students enrolled in the official IB Diploma Programme. Courses are offered only at authorized IB World Schools. Scores range from 1 to 7 (highest).

SAT: Scores updated for SAT (2016)	
ENGLISH	MATH
470	500

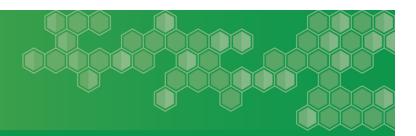
The SAT is a college entrance exam that is accepted or required at nearly all four-year colleges and universities in the U.S. The current SAT includes sections on reading, writing and math. The highest possible score for each section is 800.

Collaboratively developed, standards-based performance assessment	
ENGLISH	MATH
State-wide scoring criteria	State-wide scoring criteria

An authentic application of Essential Skills for Postsecondary and Workforce Readiness, through the creation of a complex product or presentation. (In development)



Data Sources, SB17-272



Three Graduation Guidelines options *are not* included as options for the higher achievement measure:

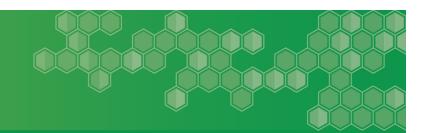
- 1) District Capstones
- 2) Collaboratively developed, standards-based performance assessments
- 3) Industry Certificates

Graduation Guidelines Timeline

- The Graduation Guidelines policy will be fully implemented across the state beginning with the Class of 2022.
 - The first complete Graduation Guidelines dataset will be available in January 2023.



Proposed Calculation



We propose the calculation method would be the same for both sub-indicators:

unduplicated count of graduates that have met at least one measure

graduates identified by the school / district

- ✓ Graduation Guidelines reporting is required for graduates
- ✓ Consistency in the denominator between the two sub-indicators
- ✓ Counting at graduation allows for a complete dataset across the state
 - o About 85% of IB examinations are taken in the final year of high school
 - o About 65% of AP examinations are taken in the final two years of high school
- ✓ A graduate is counted in the numerator if they met the requirement at any time during grades 9-12.



Alternative Approach



Count each year's grade 9-12 enrollment as the base and any student in grades 9-12 who met at least one measure during the school year in the numerator. Enrollment could be defined as from October Count until the end of the school year.

unduplicated count of students that have met at least one measure

total students enrolled in school / district

The primary downside to this approach is incomplete data:

- Graduation guidelines reporting is required for graduates but optional in the years leading to a student's graduating year.
- Most IB examinations are not offered until the final year of high school.
- AP course offerings and policies vary across districts, and some districts may not offer AP classes until the final two years of high school.

Requested Feedback



Please share your thoughts on the proposed calculation for these two new sub-indicators.



Update on Military Enlistment Student Flag



The Military Enlistment data element was added to the demographic file in Data Pipeline and will be reported in the End of Year data collection for the Class of 2021.

Military Enlisted – Student who has or will enlist in the military.

- This includes all branches of the military and full-time National Guard duty.
- Students only need to be identified if 17 years of age or older. Students may possibly be identified more than once.

Once data are available, military enlistment will be added as a successful post-secondary outcome to the matriculation rate calculation.



Technical Advisory Panel



- Meeting Summary:
 - Suggested future analysis
 - TAP recommendations from this meeting
- Public Comment
- Close Meeting
 - Next Scheduled Meeting, Thursday, April 22nd, 1-4.

