

Connection Title: SAT and ACT participation and performance: Percentage of grade 11–12 students who earn a “college-ready” score, based on the benchmarks set by the SAT and ACT

Selected Descriptors:

Tests and Scales->Achievement Tests
 Measurement->Benchmarking
 Tests and Scales->College Entrance Examinations
 Educational Process: Societal Perspectives->College Preparation
 Educational Levels, Degrees, and Organizations->Grade 11
 Educational Levels, Degrees, and Organizations->Grade 12
 Individual Development and Characteristics->Performance
 Educational Levels, Degrees, and Organizations->Secondary Education
 Social Processes and Structures->Standards
 Education-to-Workforce (E-W) Indicator Framework ->EQ12: Access and completion of rigorous and accelerated college preparatory coursework
 Education-to-Workforce (E-W) Indicator Framework ->EQ13: College application readiness and counseling support

Author: Education-to-Workforce Framework Collaborators Group

Location: More Than One State

Source for CEDS Connection Information: Education-to-Workforce Indicator Framework (<https://educationtoworkforce.org/>)

Description of CEDS Connection:

This Connection identifies the CEDS elements needed to measure the percentage of grade 11–12 students who earn a “college-ready” score, based on the benchmarks set by the SAT and ACT. Analysis recommendations are included. This Connection supports the Education-to-Workforce Indicator Framework.

Go Further with this Connection

You can use this Connection with your own data system. Click on the myConnect logo to apply the elements from your shared map to this Connection.



Data Elements

Metric

CEDS Elements:

A. Assessments -> Assessment -> Assessment Academic Subject
 B. Assessments -> Assessment -> Assessment Type
 C. Assessments -> Assessment Result -> Assessment Result Date Created
 D. Assessments -> Assessment Result -> Assessment Result Score Value
 E. Assessments -> Assessment Result -> Assessment Score Metric Type
 F. K12 -> Calendar -> Session -> Session End Date
 G. K12 -> K12 School -> Identification -> School Identification System
 H. K12 -> K12 School -> Identification -> School Identifier
 I. K12 -> K12 School -> Session -> School Year
 J. K12 -> K12 Student -> Enrollment -> Enrollment Entry Date
 K. K12 -> K12 Student -> Enrollment -> Enrollment Exit Date
 L. K12 -> K12 Student -> Enrollment -> Entry Grade Level
 M. K12 -> K12 Student -> Identity -> Student Identification System
 N. K12 -> K12 Student -> Identity -> Student Identifier
 O. K12 -> LEA -> Identification -> Local Education Agency Identification System
 P. K12 -> LEA -> Identification -> Local Education Agency Identifier
 Q. K12 -> SEA -> Identification -> State Agency Identification System
 R. K12 -> SEA -> Identification -> State Agency Identifier

Elements Not Currently in CEDS:

Disaggregates

CEDS Elements:

A. Adult Education -> AE Student -> Status -> Low-income Status
 B. K12 -> K12 School -> Directory -> Administrative Funding Control
 C. K12 -> K12 School -> Directory -> Charter School Type
 D. K12 -> K12 School -> Directory -> School Type
 E. K12 -> K12 School -> Identification -> Organization Type
 F. K12 -> K12 Student -> Demographic -> Hispanic or Latino Ethnicity
 G. K12 -> K12 Student -> Demographic -> Military Connected Student Indicator
 H. K12 -> K12 Student -> Demographic -> Race
 I. K12 -> K12 Student -> Demographic -> Rural Residency Status
 J. K12 -> K12 Student -> Demographic -> Sex
 K. K12 -> K12 Student -> Disability -> Disability Status
 L. K12 -> K12 Student -> Disability -> IDEA Indicator
 M. K12 -> K12 Student -> Disability -> Primary Disability Type
 N. K12 -> K12 Student -> Disability -> Section 504 Status
 O. K12 -> K12 Student -> Disability -> Status End Date
 P. K12 -> K12 Student -> Disability -> Status Start Date
 Q. K12 -> K12 Student -> Discipline -> Disciplinary Action End Date
 R. K12 -> K12 Student -> Discipline -> Disciplinary Action Start Date
 S. K12 -> K12 Student -> Discipline -> Disciplinary Action Taken
 T. K12 -> K12 Student -> Economically Disadvantaged -> Eligibility Status for School Food Service Programs

Elements Not Currently in CEDS:

U. K12 -> K12 Student -> English Learner -> English Learner Status
 V. K12 -> K12 Student -> English Learner -> Program Participation Exit Date
 W. K12 -> K12 Student -> English Learner -> Program Participation Start Date
 X. K12 -> K12 Student -> Homeless -> Homeless Serviced Indicator
 Y. K12 -> K12 Student -> Homeless -> Homelessness Status
 Z. K12 -> K12 Student -> Homeless -> Status End Date
 AA. K12 -> K12 Student -> Homeless -> Status Start Date
 AB. K12 -> K12 Student -> IDEA -> Program Participation Exit Date
 AC. K12 -> K12 Student -> IDEA -> Program Participation Start Date
 AD. K12 -> K12 Student -> Individualized Program -> Student Support Service Type
 AE. K12 -> K12 Student -> Language -> ISO 639-3 Language Code
 AF. K12 -> K12 Student -> Language -> Language Type
 AG. K12 -> K12 Student -> Migrant -> Migrant Status
 AH. K12 -> K12 Student -> Migrant -> Program Participation Exit Date
 AI. K12 -> K12 Student -> Migrant -> Program Participation Start Date
 AJ. K12 -> K12 Student -> Program -> Program Participation Exit Date
 AK. K12 -> K12 Student -> Program -> Program Participation Start Date
 AL. K12 -> K12 Student -> Program -> Program Participation Status
 AM. K12 -> K12 Student -> Program -> Program Type
 AN. K12 -> Parent/Guardian -> Education -> Highest Level of Education Completed

► Analysis Recommendations

General Connection Information

CEDS elements are shown in ***bold/italicized*** font.

This metric is part of the Education-to-Workforce (E-W) Indicator Framework, specifically "Outcomes and Milestones" which pertain to key outcomes and milestones along the E-W continuum strongly associated with people achieving economic mobility and security.

This metric is a measurement for a key indicator "SAT and ACT participation and performance" and measures the percentage of grade 11-12 students who earn a college ready score, based on the benchmarks set by the SAT and ACT.

Calculating a Response

Use the following CEDS elements to determine the school years for which the data will be measured:

- ***School Year*** = most recent school year, representing July 1 through June 30

Use the following CEDS elements to determine the universe of students:

Pull all unique students which is determined by using a unique ***Student Identifier*** where ***Student Identification System*** = State

Where the student:

- is associated with a State Education Agency through the ***State Agency Identifier*** where ***State Agency Identification System*** = SEA
- is associated with a Local Education Agency through the ***Local Education Agency Identifier*** where ***Local Education Agency Identification System*** = SEA
- is associated with a K12 school through the ***School Identifier*** where ***School Identification System*** = SEA
- where ***Enrollment Entry Date*** and ***Enrollment Exit Date*** are within the school year being reported.

From the universe of students, narrow the list to students in grades 11 and 12 using the following CEDS element:

- ***Entry Grade Level*** = 11 or 12

College Ready Score on the SAT

Using the following CEDS elements, pull the students in grades 11 and 12 who take the SAT:

- ***Assessment Type*** = Achievement Test
- ***Assessment Score Metric Type*** = 03481 (SAT Score)
- ***Assessment Result Score Value*** is not null
- ***Assessment Result Date Created*** = Session End Date

Narrow the list to students who earned a college ready score based on the benchmark set by the SAT (see link in Related References)

Pull students where:

- ***Assessment Academic Subject*** = 01166 (Mathematics), and
- ***Assessment Score Metric Type*** = 03481 (SAT score), and
- ***Assessment Result Score Value*** ≥ 530

Pull students where:

- ***Assessment Academic Subject*** = 13373 (Reading/Language Arts), and
- ***Assessment Score Metric Type*** = 00494 (SAT score), and
- ***Assessment Result Score Value*** ≥ 480

To calculate the percentage of students in grades 11 and 12 who earned a college ready score in Mathematics based on the benchmarks set by the SAT:

- Count the number of students in grades 11 and 12 who earned a college ready score in Mathematics and Reading/Language Arts based on the benchmark set by the SAT
- Count the total number of students
- Divide the number of students in grades 11 and 12 who earned a college ready score in Mathematics based on the benchmark set by the SAT and multiply by 100.

To calculate the percentage of students in grades 11 and 12 who earned a college ready score in Reading/Language Arts based on the benchmark set by the SAT:

- Count the number of students in grades 11 and 12 who earned a college ready score in Reading/Language Arts based on the benchmark set by the SAT:
- Count the total number of students
- Divide the number of students in grades 11 and 12 who earned a college ready score in Reading/Language Arts based on the benchmark set by the SAT by the total number of students and multiply by 100.

To calculate the percentage of students in grades 11 and 12 who earned college ready scores on the benchmarks set by the SAT:

- Count the number of students in grades 11 and 12 who earned a college ready score in Mathematics and Reading/Language Arts based on the benchmark set by the SAT
- Count the total number of students
- Divide the number of students in grades 11 and 12 who earned college ready scores in Mathematics and Reading/Language Arts based on the benchmarks set by the SAT by the total number of students and multiply by 100.

College Ready Score on ACT

Using the following CEDS elements, pull the students in grades 11 and 12 who took the ACT:

- **Assessment Type** = Achievement Test
- **Assessment Score Metric Type** = 00494 (ACT Score)
- **Assessment Result Score Value** is not null
- **Assessment Score Result Date Created** = Session End Date

Narrow the list to students who earned a college ready score based on the benchmark set by the ACT (see link in Related References)

Pull students where:

- **Assessment Academic Subject** = 13372 (English), and
- **Assessment Score Metric Type** = ACT score
- **Assessment Result Score Value** ≥ 18

Pull students where:

- **Assessment Academic Subject** = 01166 (Mathematics), and
- **Assessment Score Metric Type** = ACT score
- **Assessment Result Score Value** ≥ 22

Pull students where:

- **Assessment Academic Subject** = 00560 (Reading), and
- **Assessment Score Metric Type** = ACT score
- **Assessment Result Score Value** ≥ 22

Pull students where:

- **Assessment Academic Subject** = 00562 (Science), and
- **Assessment Score Metric Type** = ACT Score
- **Assessment Result Score Value** ≥ 23

To calculate the percentage of students in grades 11 and 12 who earned a college ready score in Mathematics based on the benchmark set by the ACT:

- Count the number of students in grades 11 and 12 who earned a college ready score in Mathematics based on the benchmark set by the ACT.
- Count the total number of students
- Divide the number of students in grades 11 and 12 who earned a college ready score in Mathematics based on the benchmark set by the ACT by the total number of students and multiply by 100.

To calculate the percentage of students in grades 11 and 12 who earned a college ready score in Reading based on the benchmark set by the ACT:

- Count the number of students in grades 11 and 12 who earned a college ready score in Reading based on the benchmark set by the ACT.
- Count the total number of students
- Divide the number of students in grades 11 and 12 who earned a college ready score in Reading based on the benchmark set by the ACT by the total number of students and multiply by 100.

To calculate the percentage of students in grades 11 and 12 who earned a college ready score in Science based on the benchmark set by the ACT:

- Count the number of students in grades 11 and 12 who earned a college ready score in Science based on the benchmark set by the ACT.
- Count the total number of students
- Divide the number of students in grades 11 and 12 who earned a college ready score in Science based on the benchmark set by the ACT by the total number of students and multiply by 100.

To calculate the percentage of students in grades 11 and 12 who earned college ready scores based on the benchmarks set by the ACT:

- Count the number of students in grades 11 and 12 who earned college ready scores in Mathematics, Reading, and Science based on the benchmarks set by the ACT.
- Count the total number of students
- Divide the number of students in grades 11 and 12 who earned college ready scores in Mathematics, Reading and Science based on the benchmarks set by the ACT by the total number of students and multiply by 100

Disaggregate by Home Language

Use the following CEDS elements to disaggregate the final set of students by Home Language:

- **Language Type** = Home Language; and
- **ISO 639-3 Language Code** \neq Eng; and/or
- **English Learner Status** = Yes

Disaggregate by Homelessness

Use the following CEDS elements to disaggregate the final set of students by Homelessness:

- **Homelessness Status** = Yes
- **Homeless Serviced Indicator** = Yes
- **Status Start Date** \leq the school year being reported
- **Status End Date** \geq the school year being reported

Disaggregate by Race and Ethnicity

Use the following CEDS elements to disaggregate the final set of students by Race:

Filter records where **Hispanic or Latino Ethnicity** = No

Count, by race, where any of the following are true:

- **Race** = American Indian or Alaska Native
- **Race** = Asian
- **Race** = Black or African American
- **Race** = Native Hawaiian or Other Pacific Islander
- **Race** = White
- **Race** = Demographic Race Two or More Races
- **Race** = Race and Ethnicity Unknown

Use the following CEDS elements to disaggregate the final set of students by Hispanic or Latino Ethnicity:

- Filter records where **Hispanic or Latino Ethnicity** = Yes

Disaggregate by Sex

**Note: CEDS does not have a Gender element. While Sex is not a proxy for Gender it is the closest approximation currently available.*

**Note: Male + Female will not always equal 100% for states that have more choices beyond male and female.*

Use the following CEDS elements to disaggregate the final set of students by Sex:

- **Sex** = Male, Female, or Not Selected

Disaggregate by Urbanicity

Use the following CEDS element to disaggregate the final set of students by Urbancity.

- **Rural Residency Status** = Yes (indicating Rural) or No (indicating Urban)

Disaggregate by Disability Status

Use the following CEDS elements to disaggregate the final set of students by Disability Status:

Students with a Disability

- **Disability Status** = Yes; and/or
- **Status Start Date** \leq the school year being reported
- **Status End Date** \geq the school year being reported

- **IDEA Indicator** = Yes; and/or
- **Section 504 Status** = Yes

Count, by disability type, where any of the following are true:

- **IDEA Disability Type** = Autism
- **IDEA Disability Type** = Deaf-blindness
- **IDEA Disability Type** = Deafness
- **IDEA Disability Type** = Developmental delay
- **IDEA Disability Type** = Emotional disturbance
- **IDEA Disability Type** = Hearing impairment
- **IDEA Disability Type** = Intellectual disability
- **IDEA Disability Type** = Multiple disabilities
- **IDEA Disability Type** = Orthopedic impairment
- **IDEA Disability Type** = Other health impairment
- **IDEA Disability Type** = Specific learning disability
- **IDEA Disability Type** = Traumatic brain injury
- **IDEA Disability Type** = Visual impairment

Filter records based on **Primary Disability Type** when **IDEA Indicator** = Yes

- **Program Participation Start Date** ≤ the school year being reported
- **Program Participation Exit Date** ≥ the school year being reported

Students without a Disability

- **Disability Status** = No; and
- **Primary Disability Type** is null; and
- **IDEA Indicator** = No; and
- **Section 504 Status** = No

Count the number of students with a disability and the number of students without a disability.

Disaggregate by Parental Education Level

Use the following CEDS element to disaggregate the final set of students by Parental Education Level:

- **Highest Level of Education Completed** = Determine what the highest level of education completed is for the parents/guardians of the student

Disaggregate by Migrant Family Household

Use the following CEDS elements to disaggregate the final set of students by Migrant Family Household:

- **Migrant Status** = Yes, No
- **Program Participation Start Date** ≤ the school year being reported
- **Program Participation Exit Date** ≥ the school year being reported

Disaggregate by English Learner

Use the following CEDS elements to disaggregate the final set of students by English Learner:

- **English Learner Status** = Yes, No
- **Program Participation Start Date** ≤ the school year being reported
- **Program Participation Exit Date** ≥ the school year being reported

Disaggregate by School Type

Use the following CEDS elements to disaggregate the final set of students by K12 School Type:

- **Charter School Type** = School Charter or College University or NA; and
- **School Type** = Regular, Special, Career and Technical, Alternative or Reportable
- **Administrative Funding Control** = Public School, Private School, or Other
- **Organization Type** = K12 School, Education Institution

Disaggregate by Individuals or Family Military Status

Use the following CEDS elements to disaggregate the final set of students by Individuals or Family Military Status:

- **Military Connected Student Indicator** = Not Military, Active Duty, National Guard or Reserve, or Unknown

Disaggregate by Individual with Current or Past Child Welfare Involvement

Use the following CEDS elements to disaggregate the final set of students by Individual with Current or Past Child Welfare Involvement:

- **Program Type** = 75000 (Foster Care)
- **Student Support Service Type** = 00295 (Children's protective services)
- **Program Participation Start Date** ≤ the school year being reported
- **Program Participation Exit Date** ≥ the school year being reported

Disaggregate by Justice Involvement

Use the following CEDS elements to disaggregate the final set of students by Justice Involvement:

- **Disciplinary Action Taken** = Juvenile Justice Referral, Law enforcement referral, or Placed in juvenile detention center
- **Disciplinary Action Start Date** ≤ the school year being reported
- **Disciplinary Action End Date** ≥ the school year being reported

Disaggregate by Income Level

Use the following CEDS elements to disaggregate the final set of students by Income Level:

- **Eligibility Status for School Food Service Programs** = Free, Full price, Reduced price, Other
- **Low-income Status** = Yes, or No

► Related Connections

No related connections

► Related References

- A. Title: ACT Benchmarks; Source: act.org (see <https://www.act.org/content/act/en/college-and-career-readiness/benchmarks.html>)
- B. Title: Education-to-Workforce Indicator Framework; Source: Education-to-Workforce Indicator Framework (see <https://educationtoworkforce.org/>)
- C. Title: SAT Benchmarks; Source: collegeboard.org (see <https://satsuite.collegeboard.org/k12-educators/about/understand-scores-benchmarks/benchmarks>)

Author's Comments/Additional Information

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