Connection Title: Access to college preparatory coursework: Percentage of middle schools offering Algebra I

Selected Descriptors:

Curriculum Organization->Core Curriculum

Educational Levels, Degrees, and Organizations->Junior High Schools

Mathematics->Mathematics

Educational Levels, Degrees, and Organizations->Middle Schools

Educational Levels, Degrees, and Organizations->Schools

Education-to-Workforce (E-W) Indicator Framework ->EQ12: Access and completion of rigorous and accelerated college preparatory coursework

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 how many middle schools offer Algebra I and includes the recommended analysis criteria. 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

CFDS Flements

Elements Not Currently in CEDS:

A. K12 -> Course Section -> Course Section Identified

B. K12 -> Course Section -> Session Begin Date

C. K12 -> Course Section -> Session End Date

D. K12 -> Course Section -> Session Type

E. K12 -> K12 Course -> Course Identifier

F. K12 -> K12 Course -> School Courses for the Exchange of Data Course Code

G. K12 -> K12 Course -> School Courses for the Exchange of

Data Course Subject Area

H. K12 -> K12 School -> Directory -> Grades Offered

I. K12 -> K12 School -> Directory -> Operational Status Effective

J. K12 -> K12 School -> Directory -> School Level
K. K12 -> K12 School -> Directory -> School Operational Status
L. K12 -> K12 School -> Identification -> School Identification

System

M. K12 -> K12 School -> Identification -> School Identifier

N. K12 -> K12 School -> Session -> School Yea O. K12 -> LEA -> Identification -> Local Education Agency

Identification System

P. K12 -> LEA -> Identification -> Local Education Agency Identifier

Q. K12 -> SEA -> Identification -> State Agency Identification

R. K12 -> SEA -> Identification -> State Agency Identifier

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 "E-W system conditions" which pertain to institutional or systemic environments, policies, and practices within E-W systems that support positive E-W outcomes. [1] Using CEDS elements, this Connection will measure how many middle schools across the country offer Algebra I in their curriculum.

https://educationtoworkforce.org/sites/default/files/2023-04/E-W-Indicator-Framework_ChapterII_Indicators-and-metrics.pdf

This metric is a measurement for a key indicator, "Access to college preparatory coursework" and measures to see what percentage of middle schools are offering Algebra I.

Calculating a Response

Metric: Percentage of middle schools offering Algebra I

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.

To determine the percentage of schools offering Algebra I in your state:

Identify the total number of operational schools:

- Pull all unique districts which is determined using a unique Local Education Agency Identifier where the Local Education Agency Identification System = SEA
- Pull all unique schools which is determined by using a unique School Identifier where School Identification System = SEA
- Filter records where School Operational Status = Open, New, Added, Changed Boundary, or Reopened and where Operational Status Effective **Date** is ≤ July 1 of the school year being reported

Narrow the list of operational schools to include only middle schools:

Filter schools where

- School Level = 02400 (Middle)
- Grades Offered = 05, 06, 07, or 08 (Only include the grades applicable to middle school in your state.)

Narrow the list of operational middle schools to only those that offer Algebra I: • School Courses for the Exchange of Data Course Code = 02052 (Algebra I)

- School Courses for the Exchange of Data Course Subject Area = 02 (Mathematics)
 Course Identifier is not null
- Course Section Identifier is not null
- Session Type = Full School Year
- Session Begin Date is within the school year being reported
- Session End Date is within the school year being reported

Calculate the percentage

- Count the number of operational middle schools
- Count the number of middle schools offering Algebra I
- Divide the number of middle schools offering Algebra I by the number of operatoinal middle schools and multiply by 100. This will provide the percentage for state

To determine the national average, sum the percentages for all states then divide the sum by the number of states.

▶ Related Connections No related connections

Related References

A Title: Education-to-Workforce Indicator Framework; Source: Education-to-Workforce Indicator Framework (see https://educationtoworkforce.org/)

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