CONNECTICUT STATE DEPARTMENT OF EDUCATION

The Early Indication Tool (EIT)

How to Interpret and Use the EIT Report

Presented by

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David Alexandro

September 11, 2018

Goals for today's session

- EIT Overview
- Year in review: Pilot year for EIT Grades 1 to 6
- The year ahead:
  - Grades 7 to 9 EIT Model
  - Grades 10 to 12 EIT Model
  - 2018-19 rollout plan

- Getting the most out of the EIT Report
- Solicit feedback and suggestions
- Q&A

What is the EIT?

A data analytics and visualization tool that uses statistical methods to systematically predict and improve student outcomes

Primary Purpose of the EIT

To ***allow for timely student interventions*** by district/school staff with the ultimate goal of ***improving student engagement and outcomes***

What does the EIT report?

- **Secure student-level data**
  - Demographics
  - Attendance Rates
  - Suspensions
  - Mobility
  - Achievement
  - Course performance
- **Targeted support level**
  - High, Medium, or Low

UChicago Consortium on School Research (CCSR)

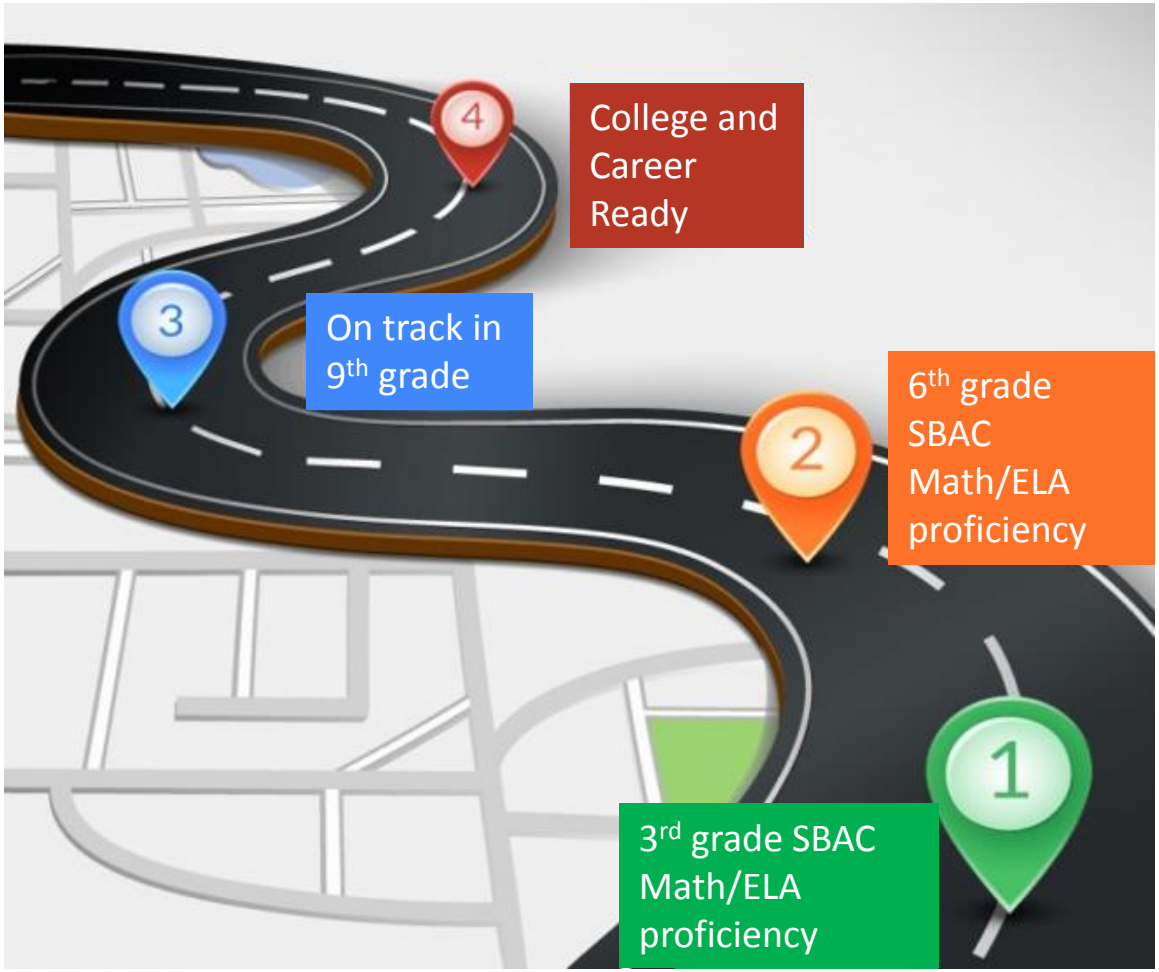
Effective indicators are…

- Valid for the intended purpose
- Actionable by schools
- Meaningful and easily understood
- Aligned with district and school priorities

Source: CCSR (2014)

MILE MARKER APPROACH

Markers serve as **targets** for students, and as **dependent variables** in the EIT model



Attendance

Behavior

Demographics

Mobility

Achievement Tests

School Indices

Course Performance

District Indices

EIT Predictors (grade-invariant)

The following are included in all EIT models:

- **Attendance**
- **Behavior**
- **Mobility**
- **High Needs status**
- **Retention**

EIT Predictors (grade-dependent)

	Model for Grades			
Variable	**1-3**	**4-7**	**8-9**	**10-12**
Assessments				
Kindergarten Entry Inventory (KEI; Language, Literacy, Numeracy)	X			
SBAC ELA and Math		X	X	X
PSAT/SAT				X
CTAA		X	X	X
Course performance			X	X

Grades 1 to 6: Person-centered approach

- Describes **similarities and differences among individuals** with respect to ***how variables relate to each other***
- Assumes that the population is ***heterogeneous*** with respect to the relationships between variables

Grades 1 to 6 EIT: Results

Relative to students in lower support levels, students in higher support levels* *on average* had:

- Lower Exam Scores
- Higher rates of:
  - Absenteeism
  - Discipline events
  - Mobility
  - Repetition

** In ascending order, the support levels are Low, Medium, and High*

Grades 1 to 6 EIT: Results (continued)

Relative to students identified for Low support, students in need of High or Medium support were more likely to be:

- High Needs students
- Students with Disabilities
- English Learners
- Males

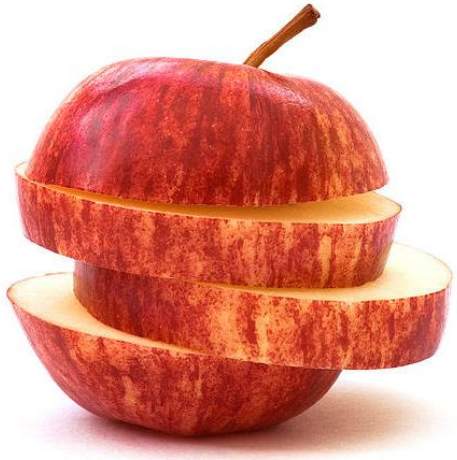
EIT Pilot Year Feedback

District users:

- Appreciated having a tool that allowed them to view and export two years of student data
- Found Support Level designations to be accurate
- Requested additional years of attendance data
- Would prefer to have the updated report available prior to course scheduling and student placements

LOOKING AHEAD

State of Connecticut



- 87.8% On-track to Graduate
- 87.4% 4-year Graduation Rate
  (All Students; 2016 Cohort)
- Target: 94%

Getting
Focused

Criteria for *On-track in 9th grade* indicator

- **No more than one semester F in core courses (English, math, social studies, science)**
- **At least five full-year credits earned across all courses in Grade 9**

Off-track

Machine Learning

Data mining techniques and computer algorithms to understand patterns in data to solve problems

Classification

And

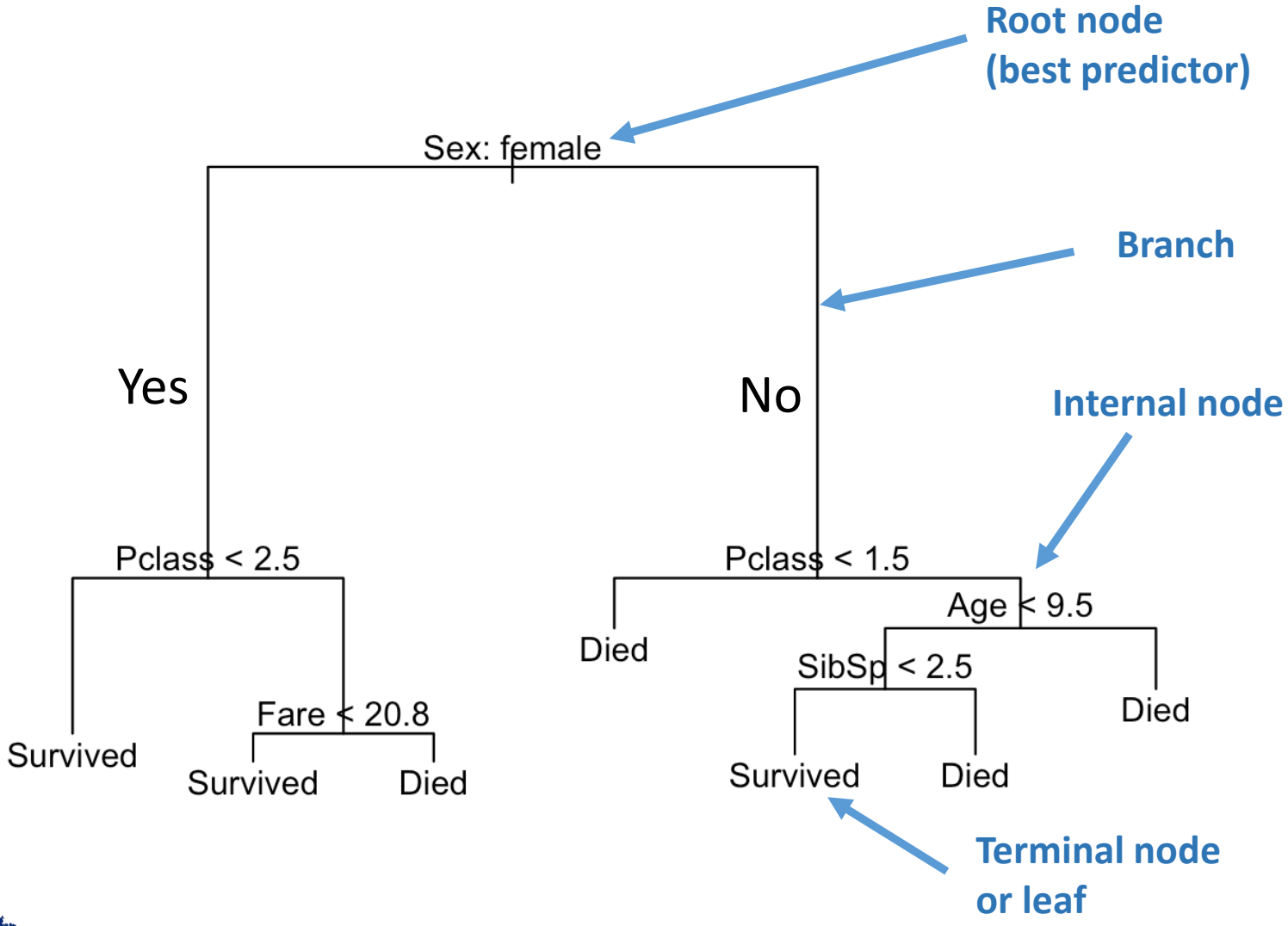
Regression

Trees

Classification (or Decision) Trees

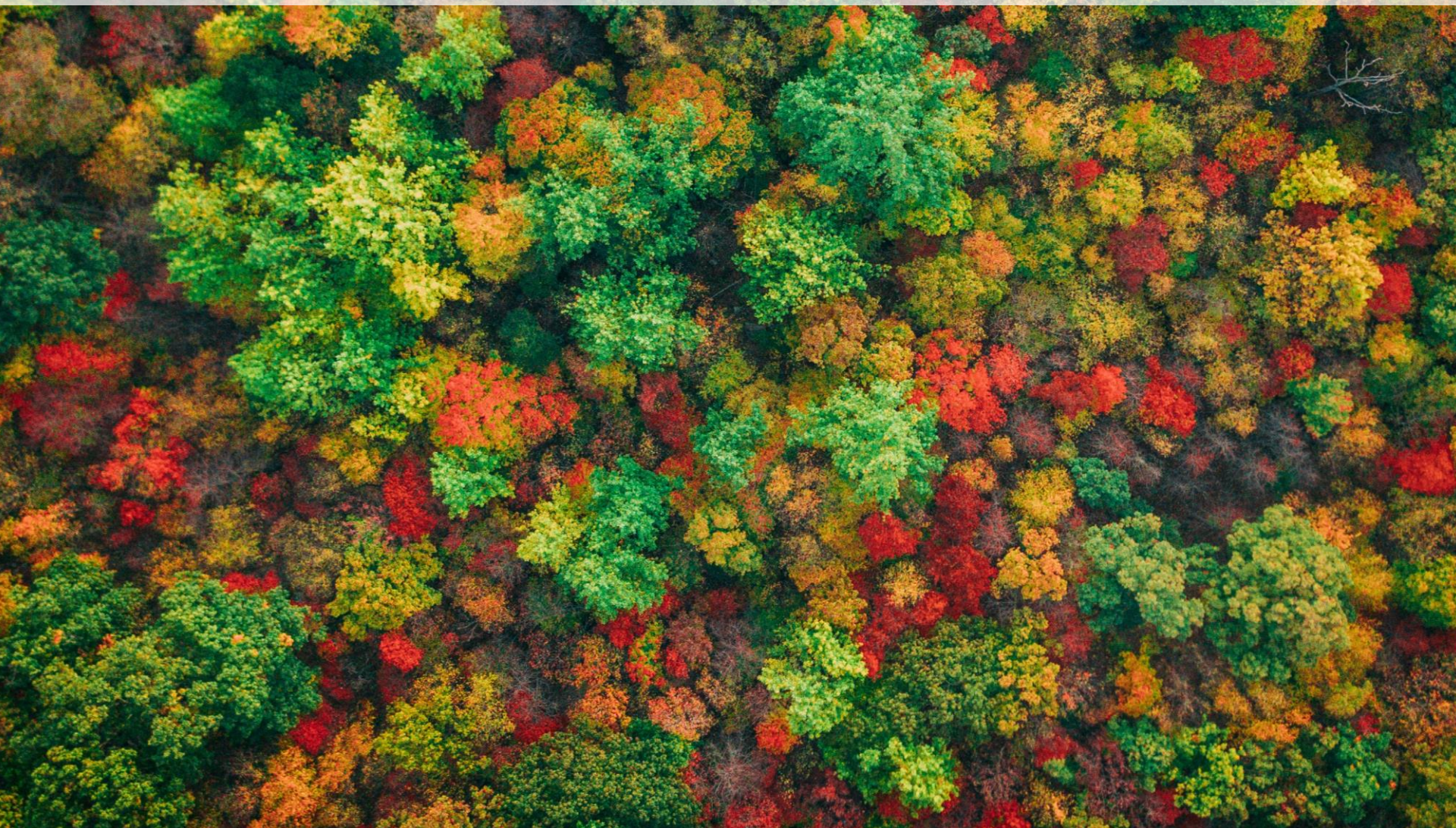
- Supervised learning algorithm that predicts a categorical outcome (e.g., on-track)
- Only uses those predictors necessary to create the optimal decision tree
- Can report predicted class probabilities

Sample Tree: Titanic Survival



Source: http://cfss.uchicago.edu/stat004_decision_trees.html

Random Forests



Random Forests

- Supervised learning algorithm that predicts a categorical outcome
- Ensemble method: Aggregates predictions of a "forest" of decision trees created using many random samples of **observations** and **predictors** from the training data
- Class probabilities = Proportion of "votes"

ADVANTAGES of Random Forests

- Decorrelates the decision trees
- Impressive predictive accuracy—even with large number of correlated predictors
- Not constrained by assumptions
- Can handle large numbers of variables and complex interactions
- All variables get a chance to shine

Graduation Rates
SWD

Subgroup	Four-Year Graduation Rate	Five-Year Graduation Rate
Students without Identified Disabilities	67.10%	69.60%
Two+ Years below Grade Level	45.50%	49.00%
Learning Disability	47.80%	52.70%
Mild Cognitive Disability	41.70%	47.20%
Emotional Disturbance	18.70%	23.50%
Speech/Language Disabilities	58.10%	63.50%
Physical/Sensory Disabilities	75.00%	77.50%

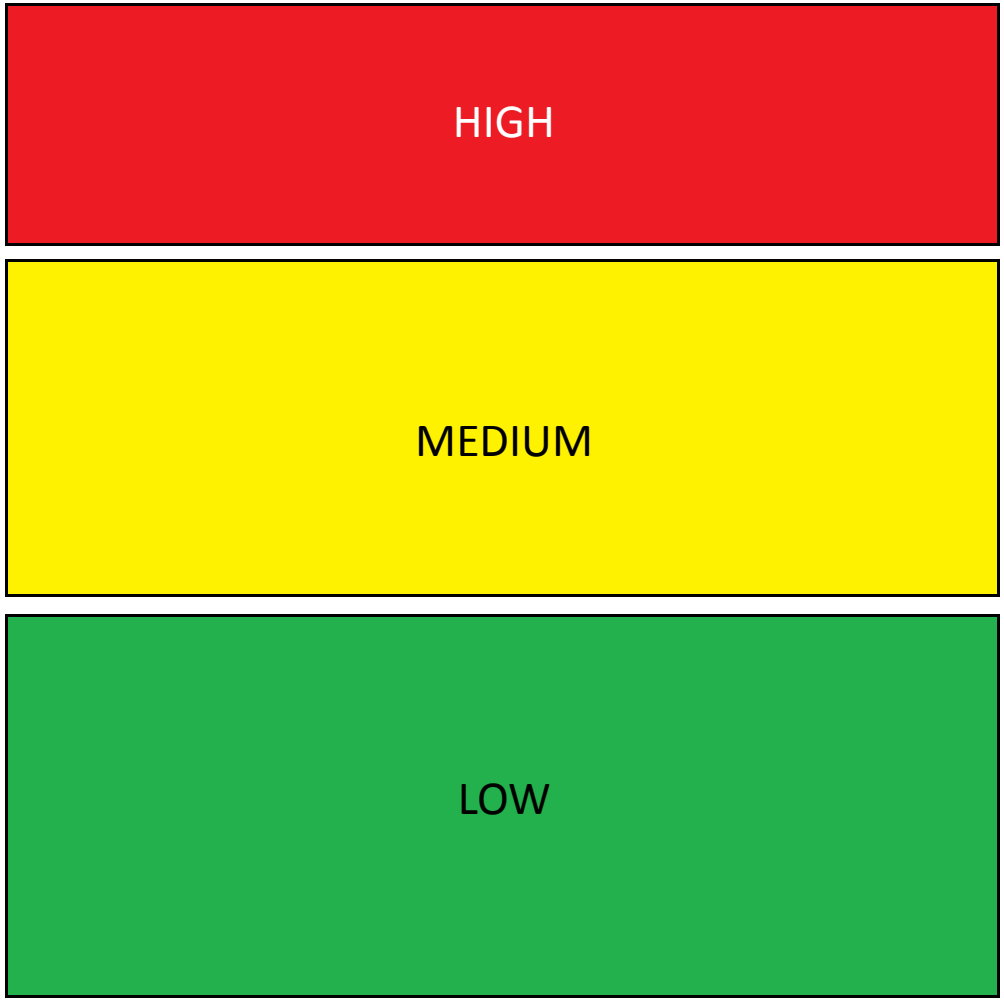
Source: Gwynne, J., Lesnick, J., Hart, H. M., & Allensworth, E. M. (2009)

Special Education K-12 Connecticut 2016-17

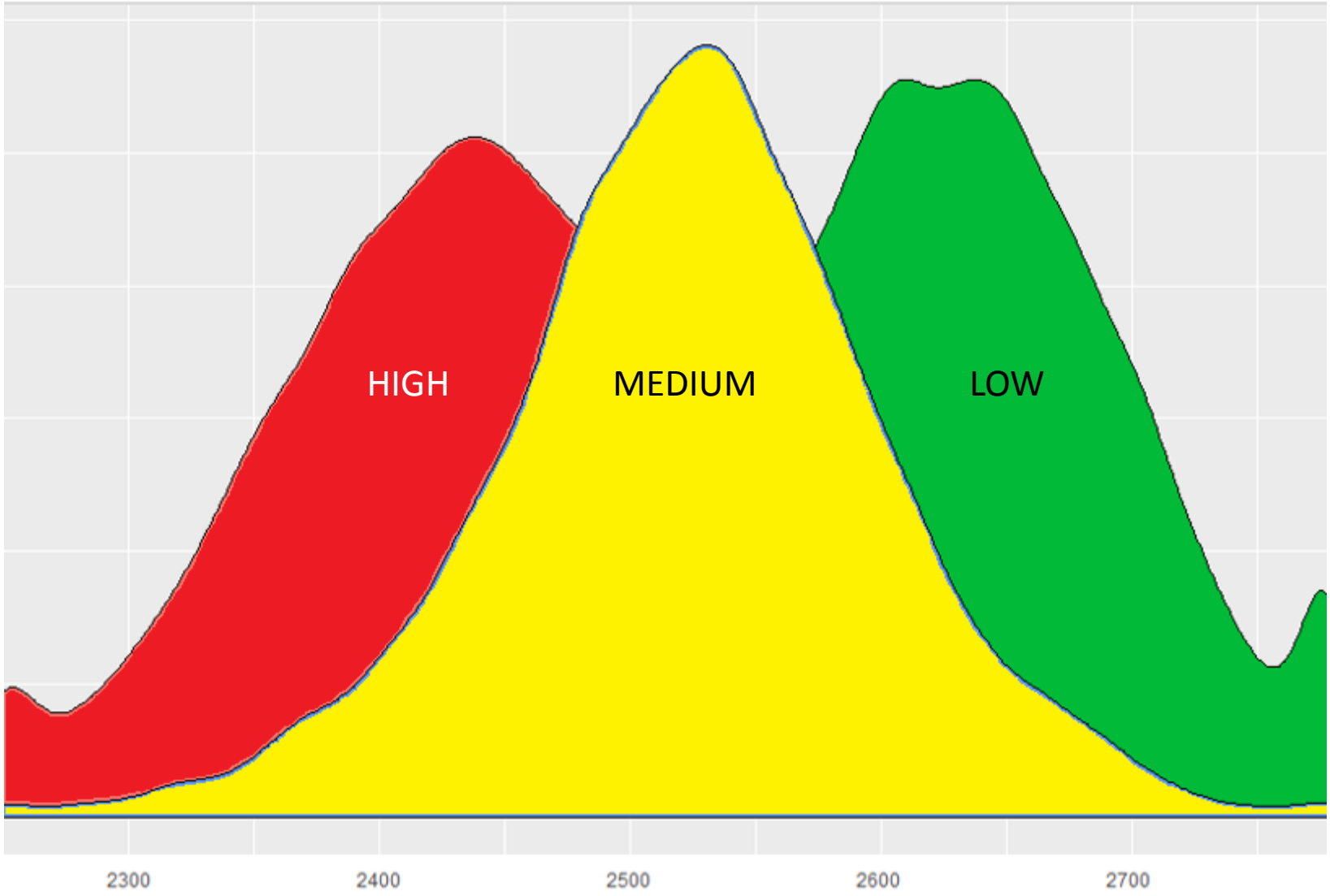
Disability	Overall Prevalence Rate (%)	Within Special Education Prevalence Rate (%)
All Disabilities	13.9	100.0
Autism	1.7	11.9
Emotional Disturbance	1.0	7.5
Intellectual Disability	0.5	3.5
Learning Disability	4.9	35.4
Other Disabilities	1.1	7.7
Other Health Impairment	2.9	20.9
Speech Language Impairment	1.8	12.9

Source: http://edsight.ct.gov/

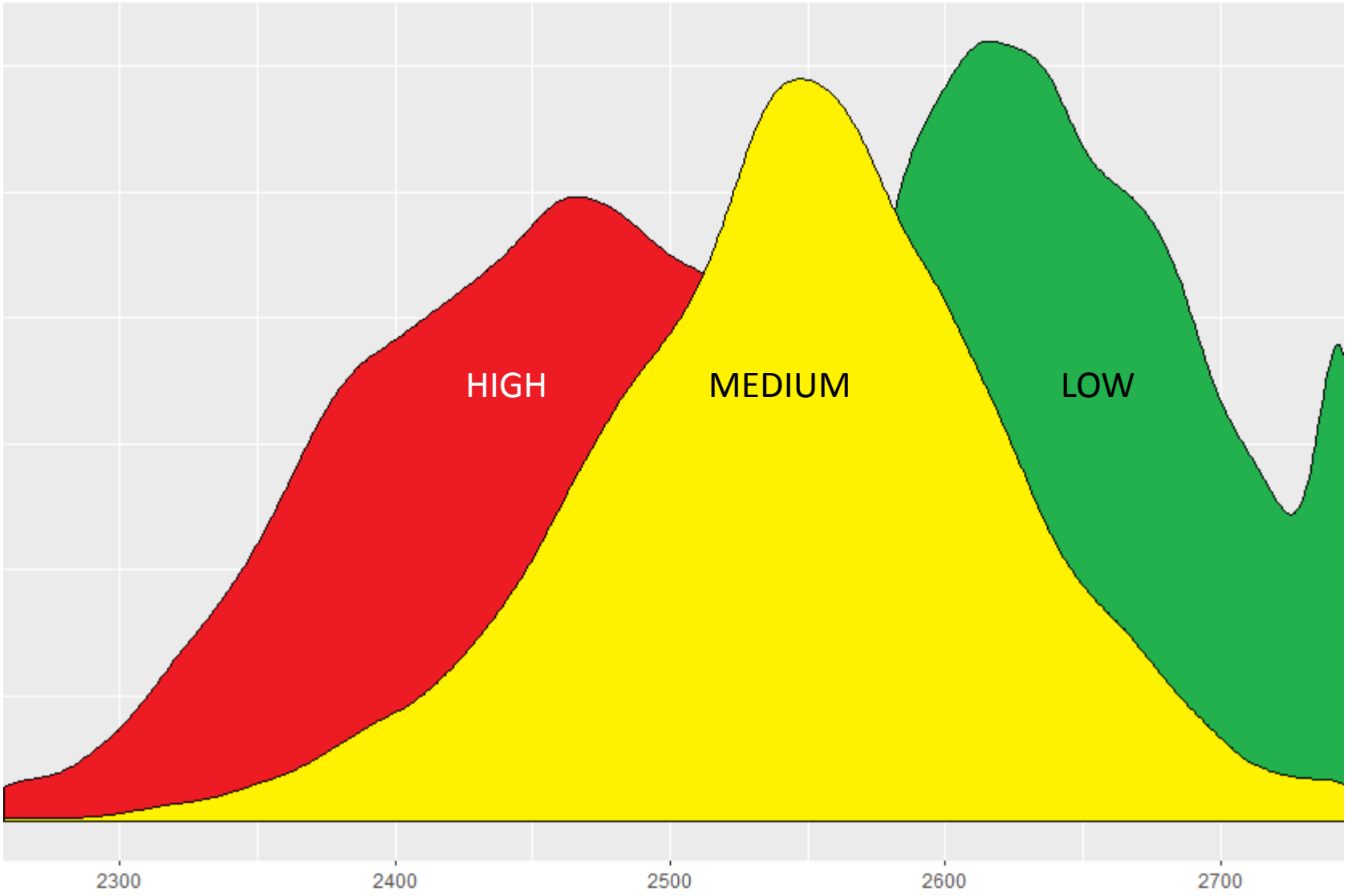
Support Levels for Grade 8



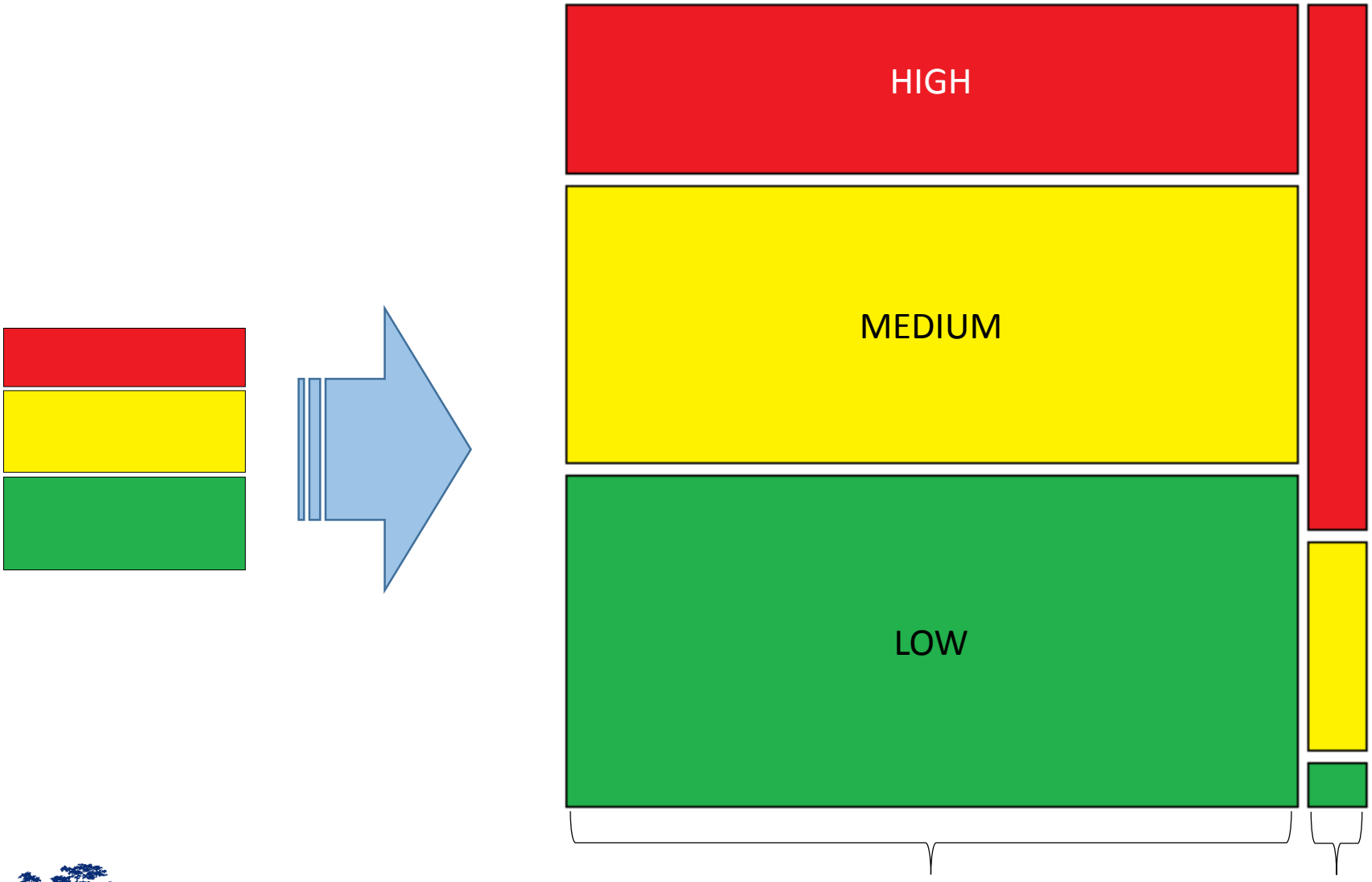
SBAC Math by Support Level for Grade 8



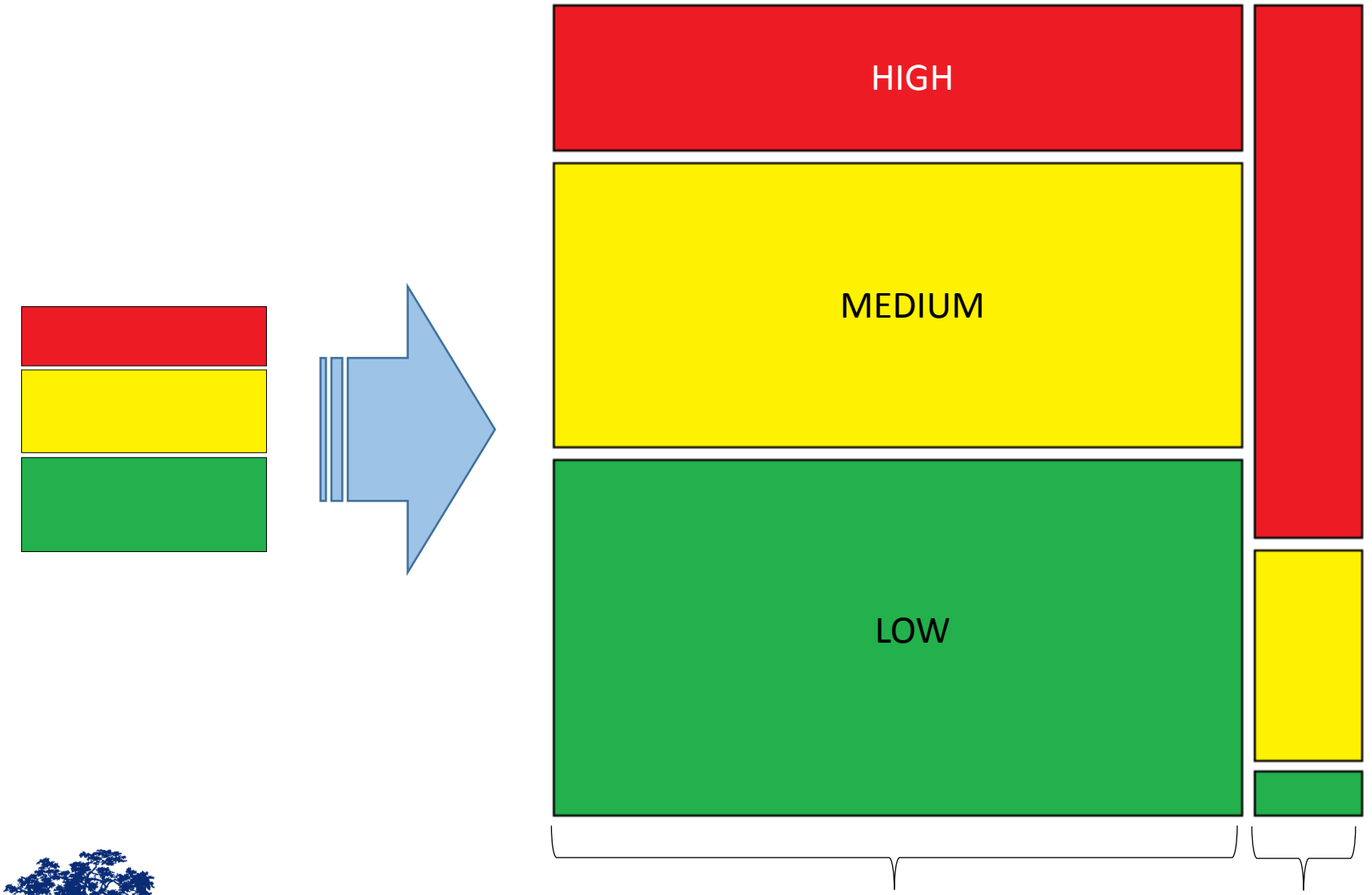
SBAC ELA by Support Level for Grade 8



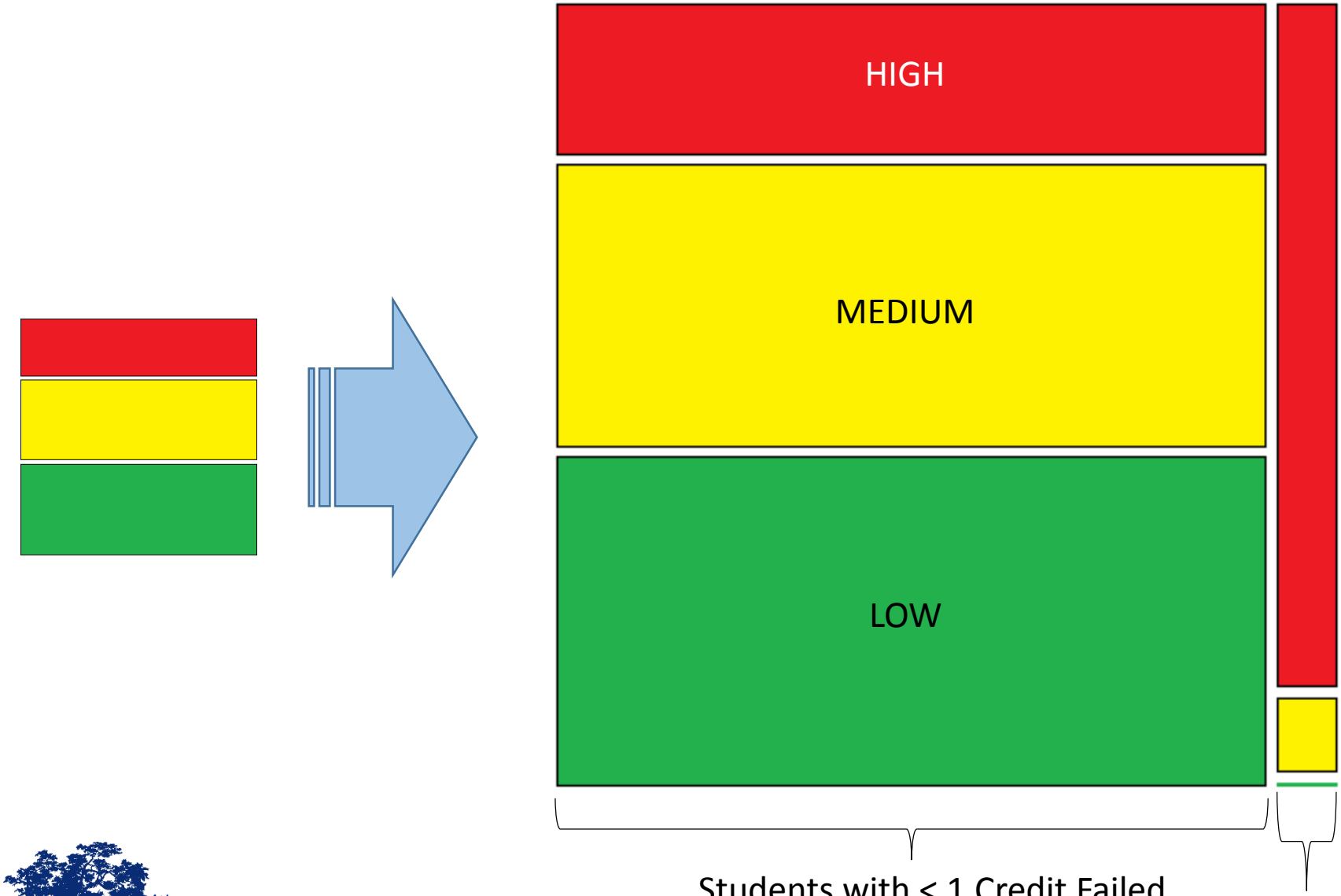
Support Levels by Chronic Absentee Status



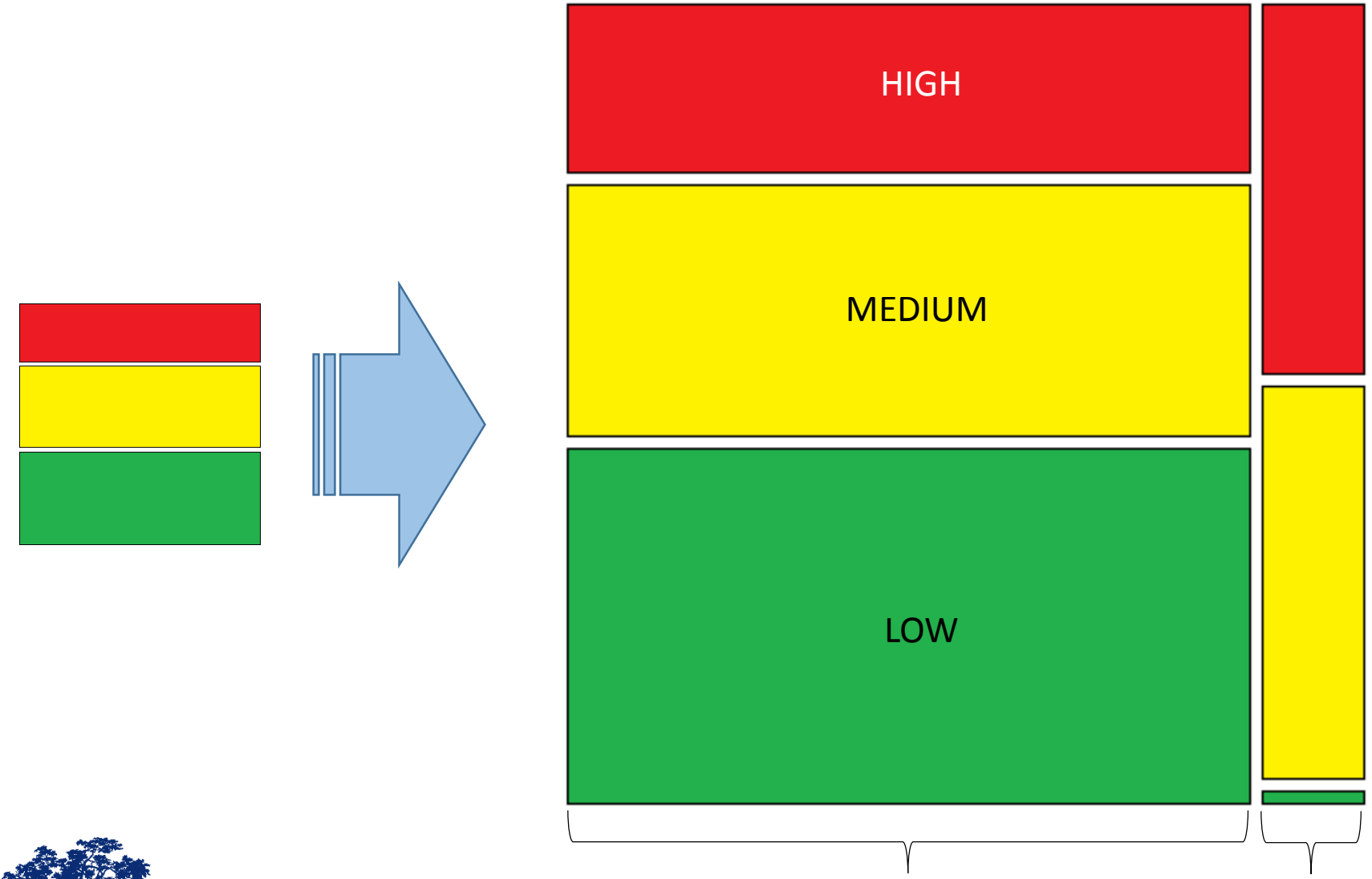
Support Levels by Suspensions



Support Levels by Grade 7 Course Failures



Support Levels by SWD Status



Grades 10 to 12

The EIT models for Grades 10 to 12 will consider **College and Career Readiness**

- Coursework
- Exams

How to Get the Most out of the EIT EdSight Secure Report

Sections By Student Grade Levels

Bar Charts of Support Levels

Filters, lattices, flyovers, info windows

Data lists

Numerical and Character Filters

Color coded data display

Sorting student-level data

Resources tab

Support links

Student support best practices links

Changes this Fall

New Grade Groupings

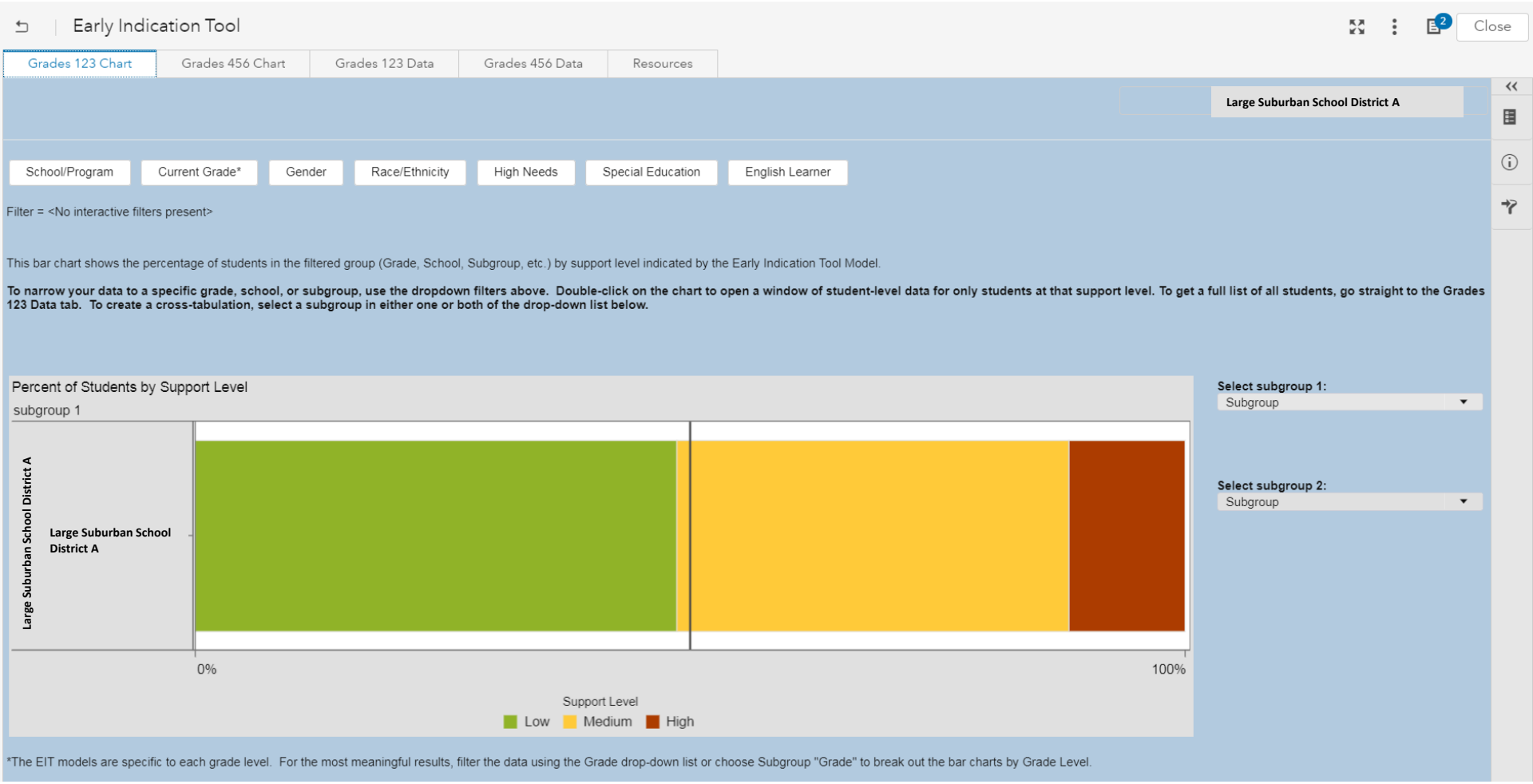
New Grades

Changes to EIT this Fall

New Data Fields

Support Level	On-time Flag	Attendance Rate (Last yr)	Attendance Rate (2yrs ago)	SB ELA Score (Last yr)	Perf. Level ELA (Last yr)	SB Math Score (Last yr)	Perf. Level MATH (Last yr)	Total School Moves	Total ISS (2 yrs)	Total OSS (2 yrs)	Core Courses Failed Grd 8	Core Courses Failed Grd 7
HIGH	1	93.4%	95.0%	2452	1	2468	1	2	1	1	Sc	Sc
HIGH	1	99.4%	97.2%	2409	1	2423	1	2	0	2	Sc	SS
HIGH	1	95.6%	92.3%	2534	2	2469	1	3	4	1	Ma	Sc
HIGH	1	.	.	.	.	.	.	3	.	.	EnSc	Sc
	1	54.7%	88.4%	.	.	.	.	2	3	7	EnSc	Ma
HIGH	0	95.6%	94.5%	2455	1	2408	1	3	4	0	EnMaScSS	SS
HIGH	1	89.0%	86.2%	2362	1	2460	1	8	2	1	EnMaSc	EnMaScSS
HIGH	0	.	.	.	.	.	.	2	.	.	En	EnScSS
HIGH	1	97.2%	96.7%	2446	1	2283	1	3	1	1	En	EnScSS
HIGH	1	94.5%	93.9%	2498	2	2384	1	3	.	.	En	
								Maximum:	Maximum:	Maximum:		

Using the EIT Report in Edsight Secure



Early Indication Tool
Close
Grades 123 Chart
Grades 456 Chart
Grades 123 Data
Grades 456 Data
Resources
Large Suburban School District A
School/Program
Current Grade*
Gender
Race/Ethnicity
High Needs
Special Education
English Learner
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subgroup 1
Large Suburban School District A
Large Suburban School District A
0%
100%
Support Level
Low
Medium
High
Select subgroup 1:
Subgroup
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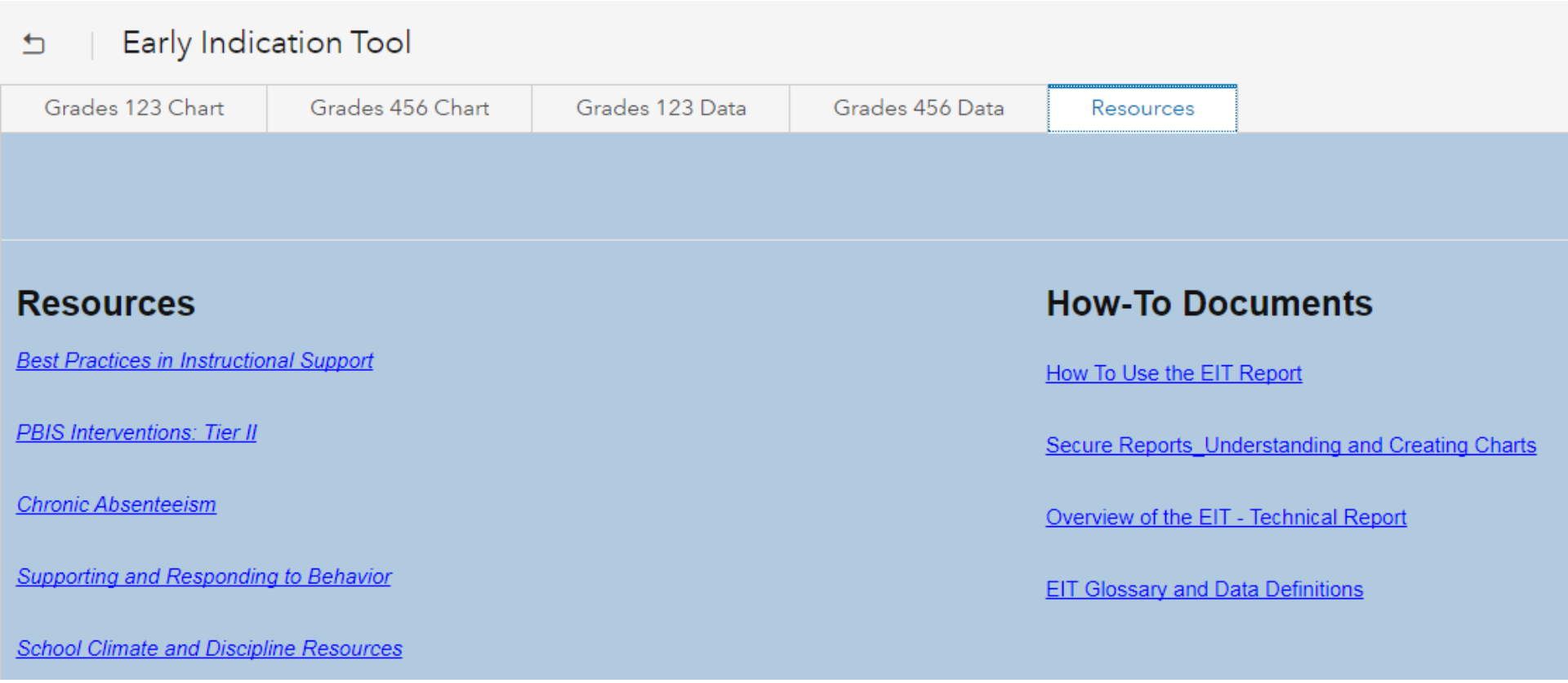
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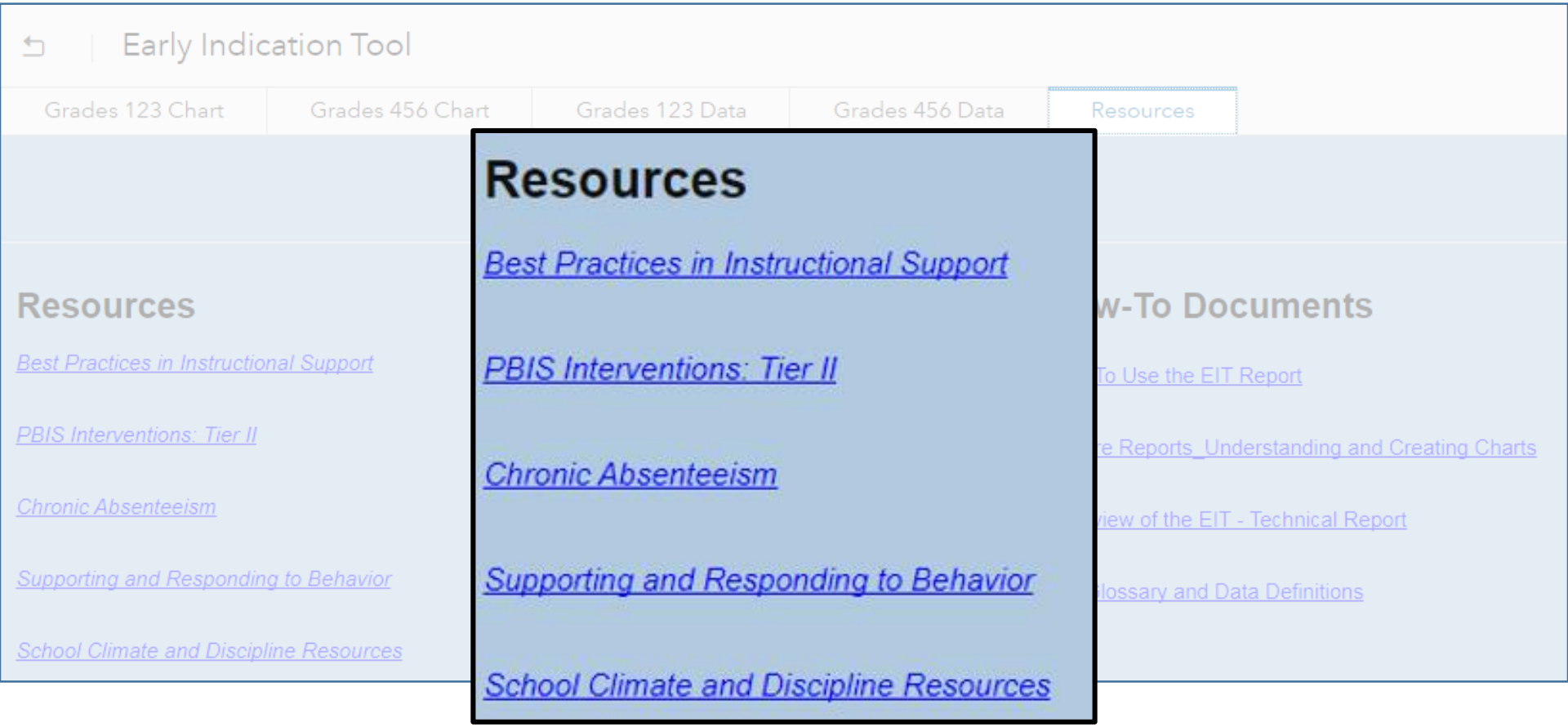
EIT Glossary and Data Definitions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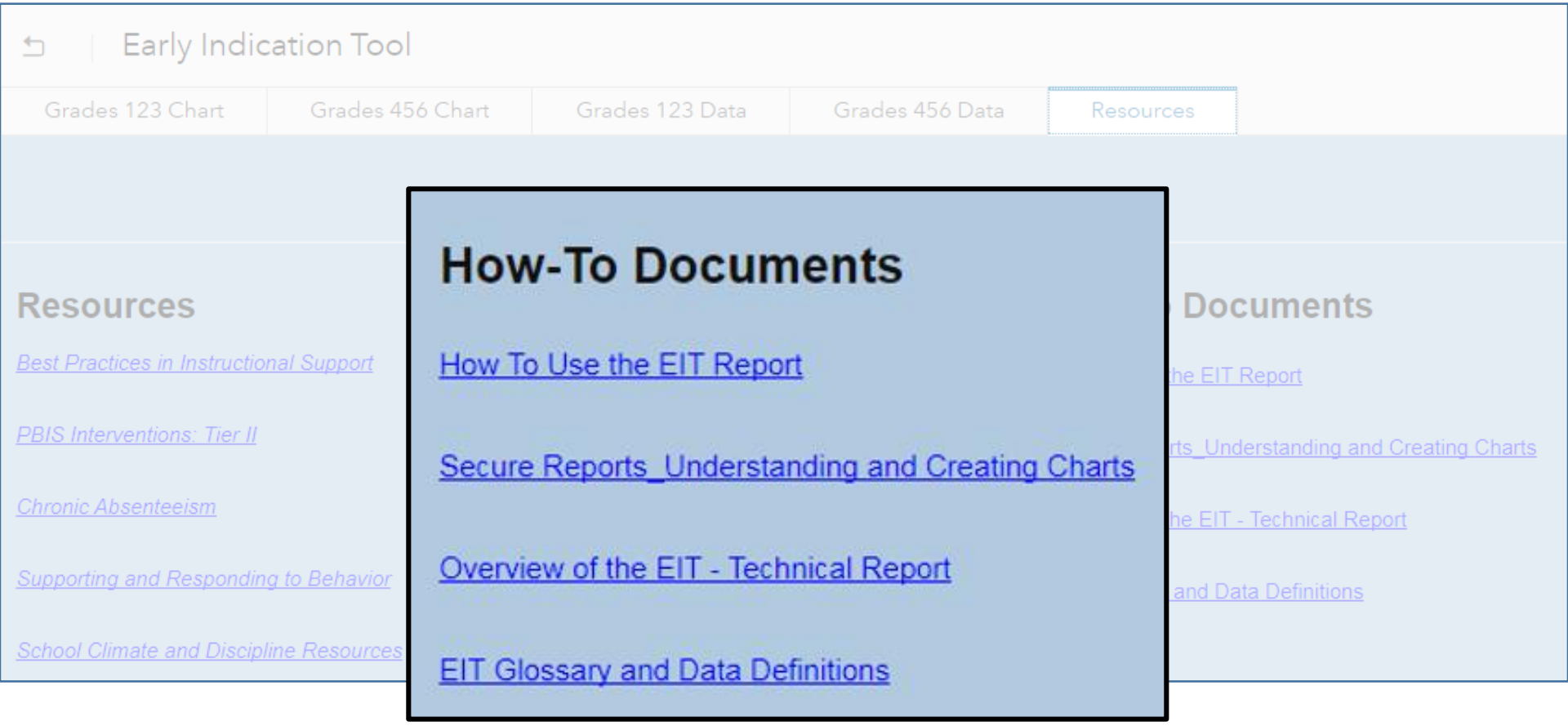
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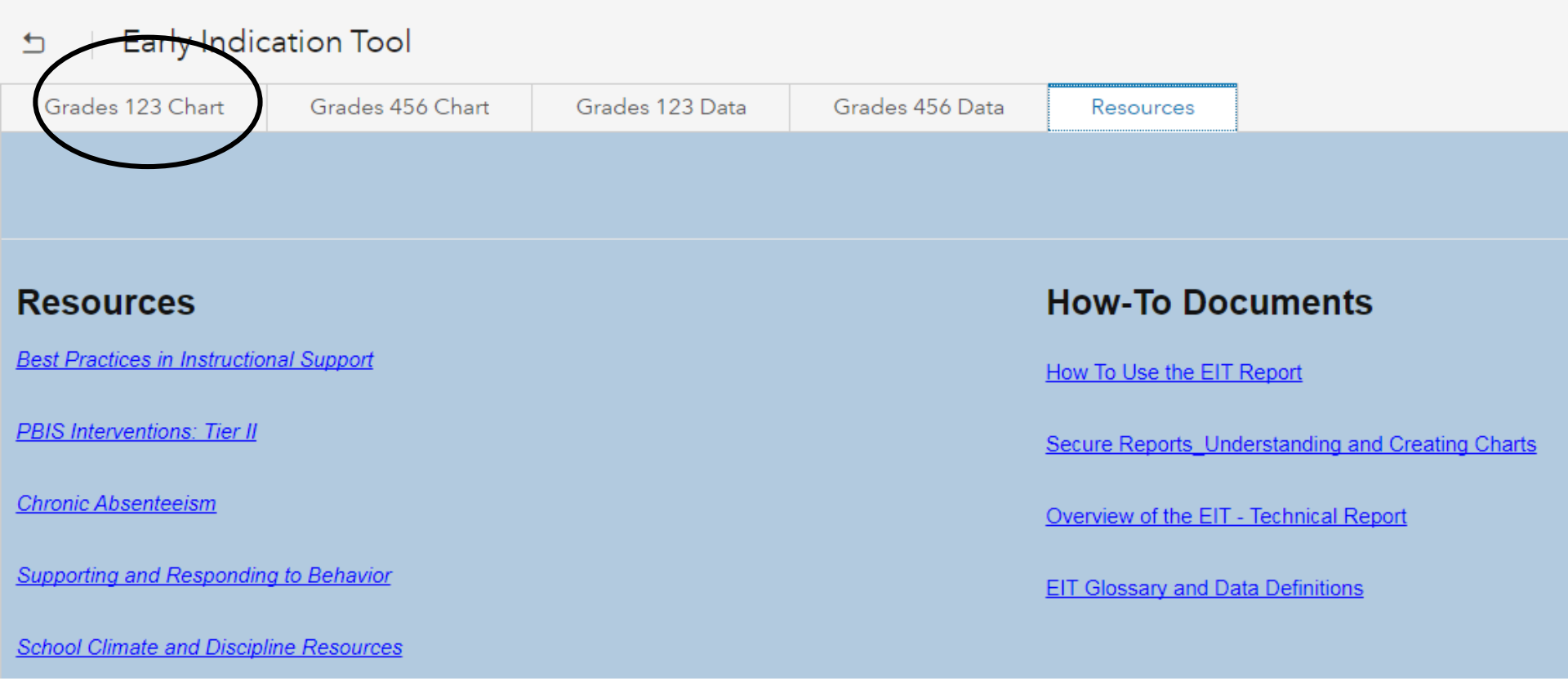
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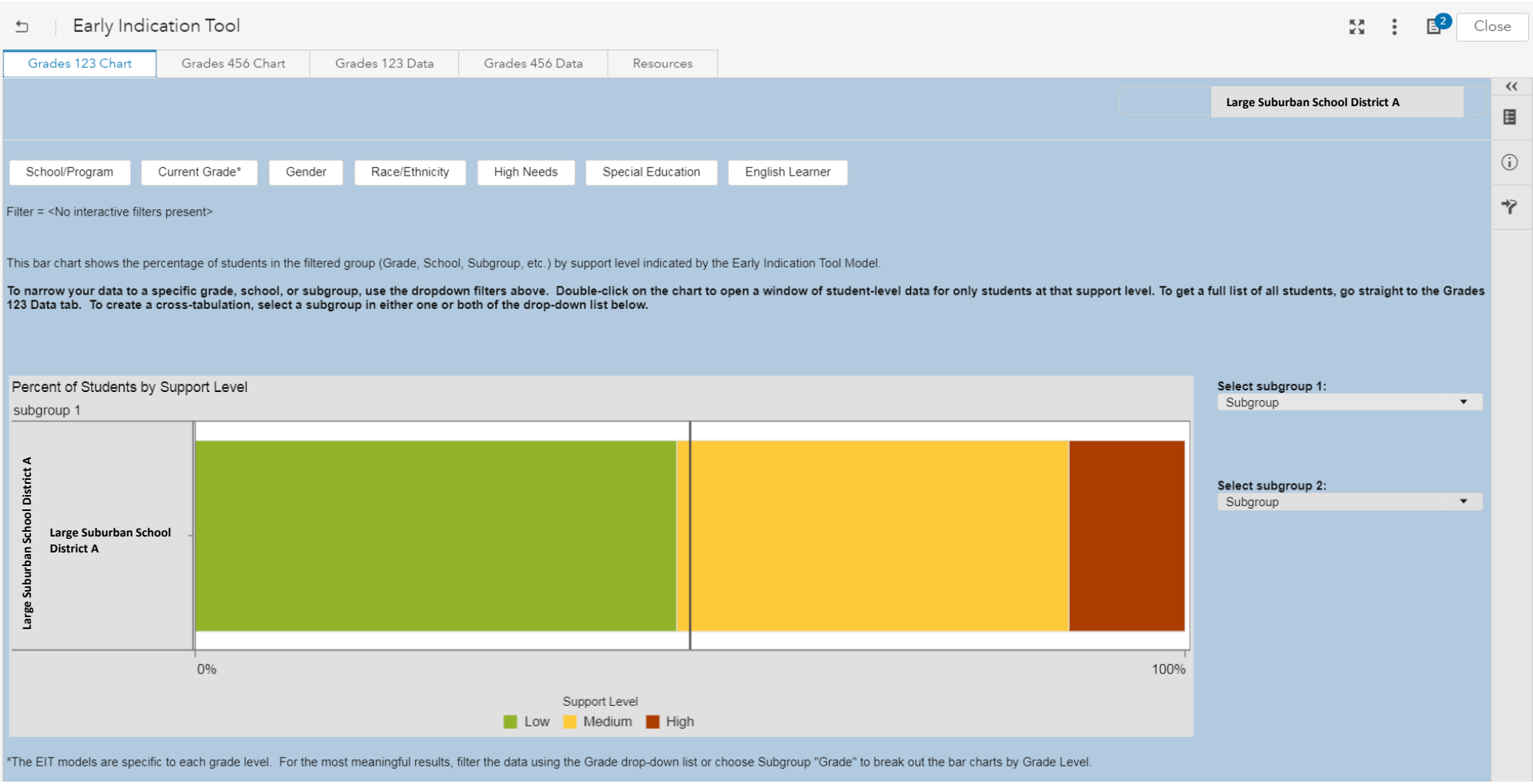
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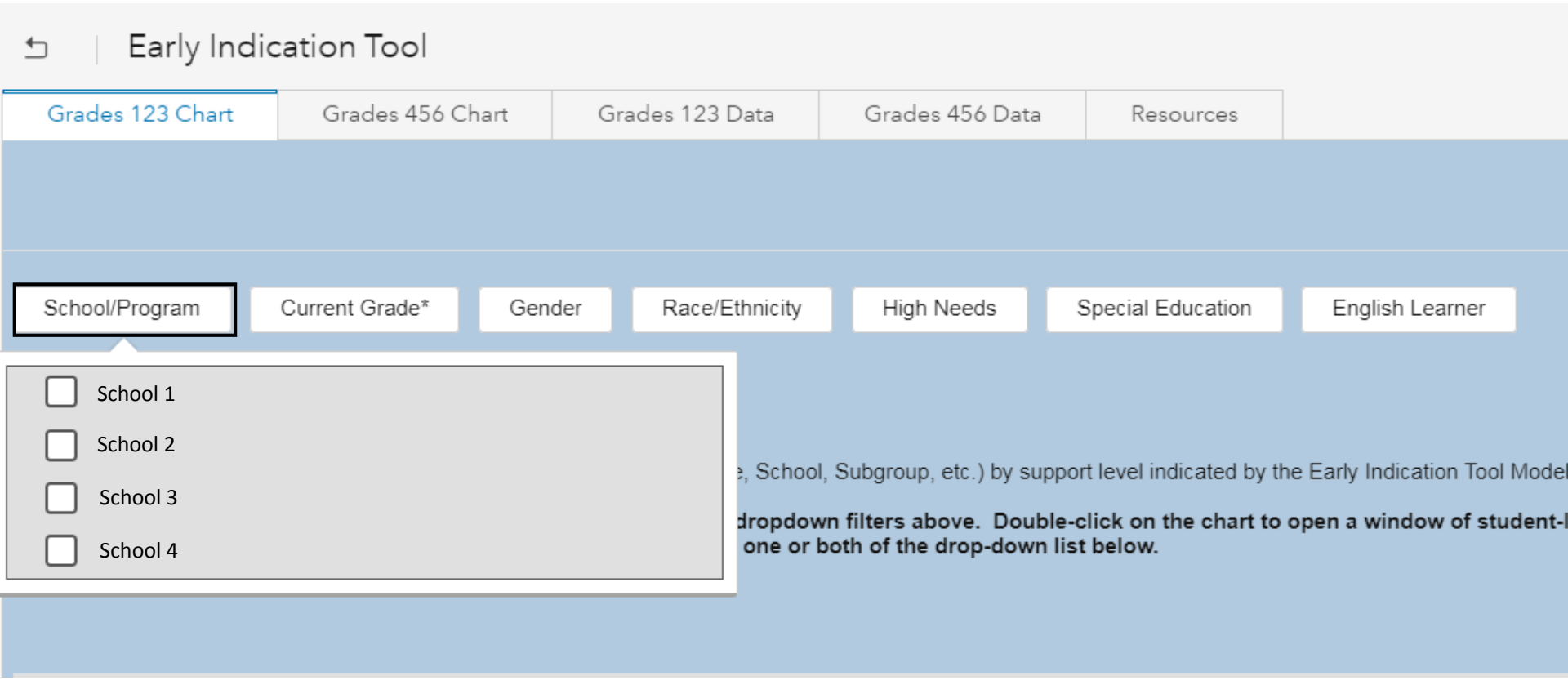
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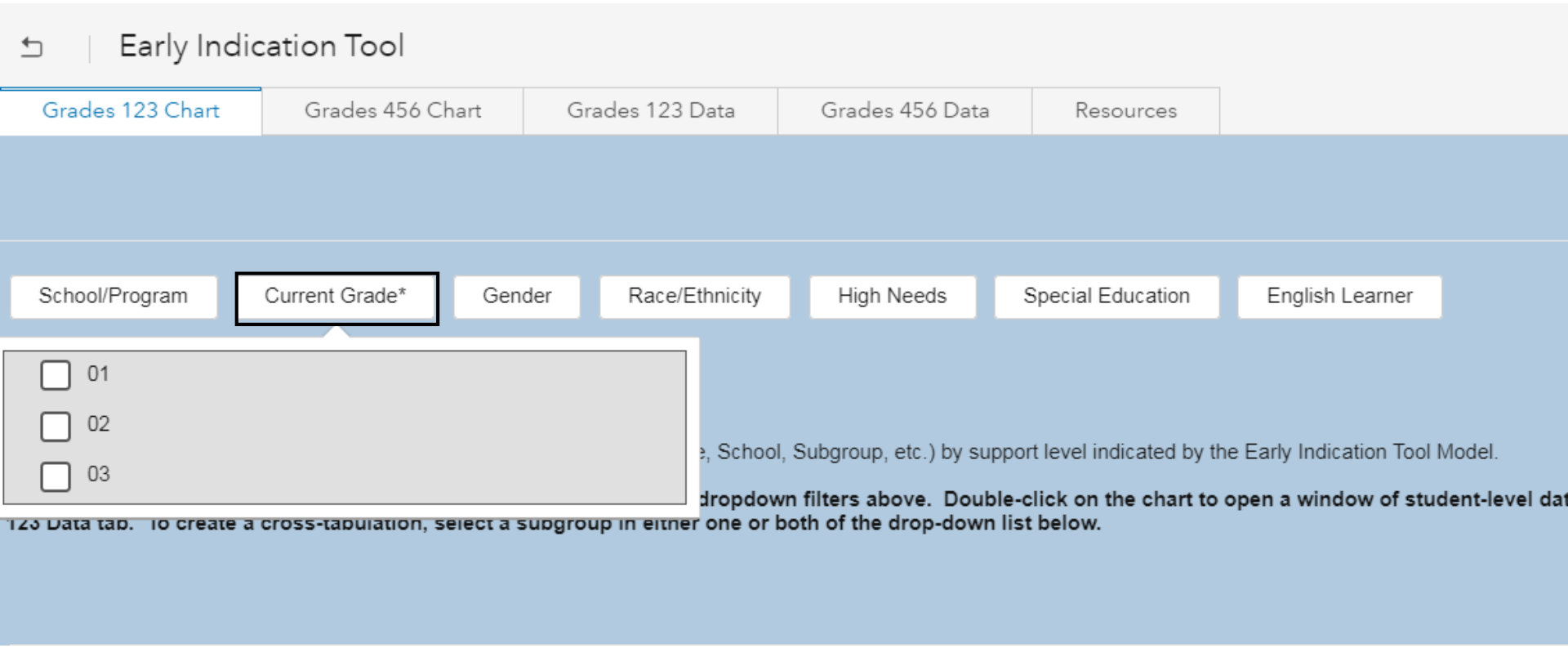
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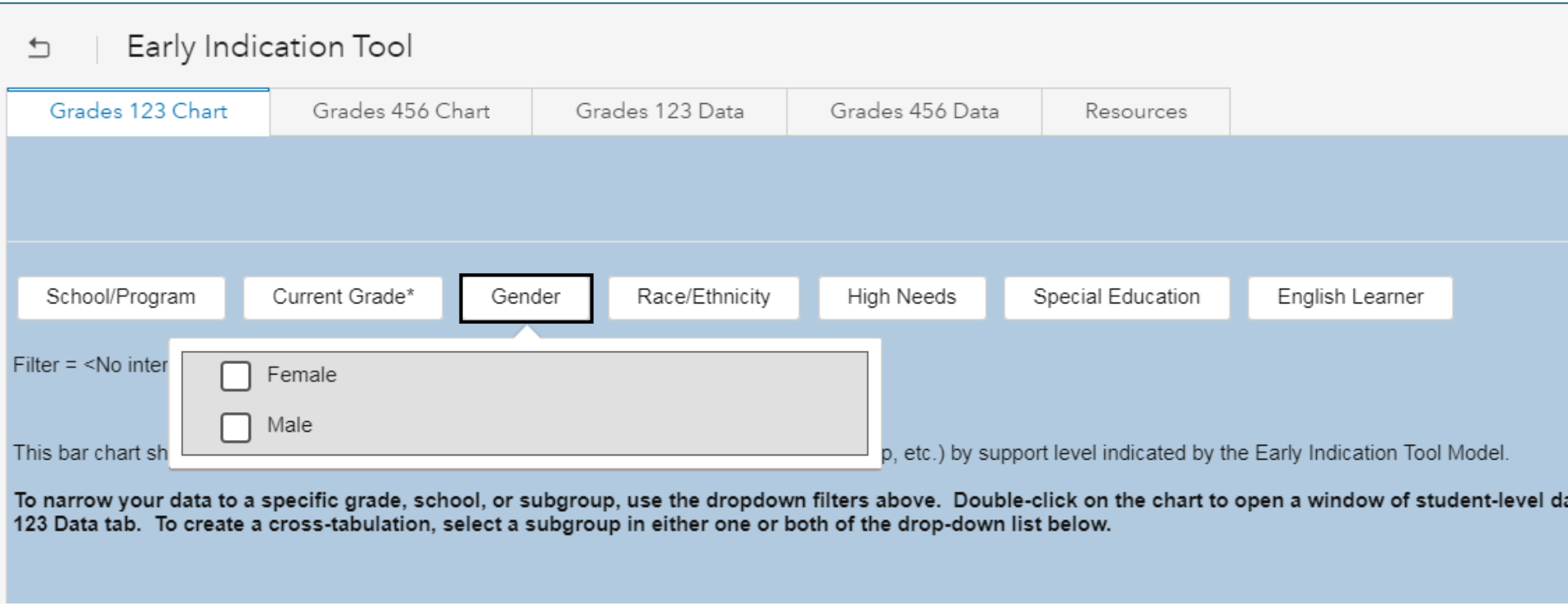
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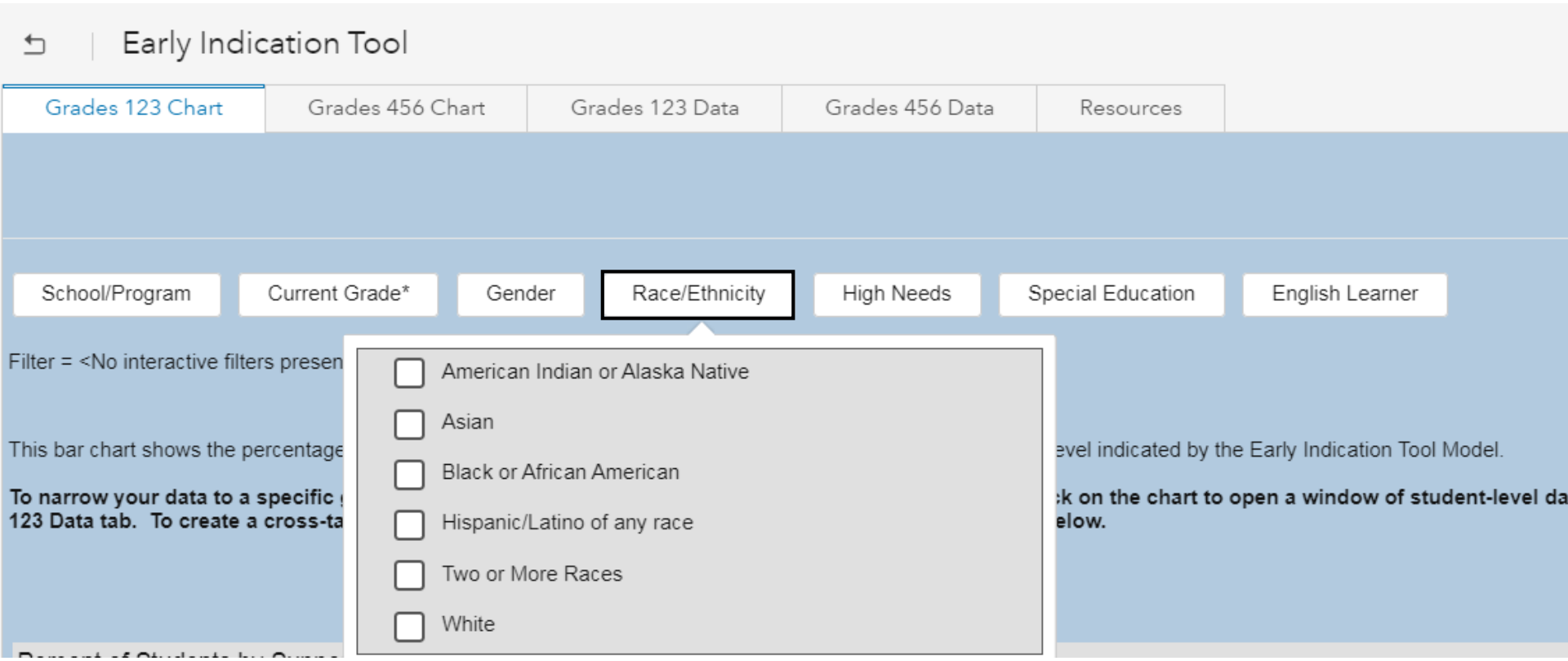
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Asian
Black or African American
Hispanic/Latino of any race
Two or More Races
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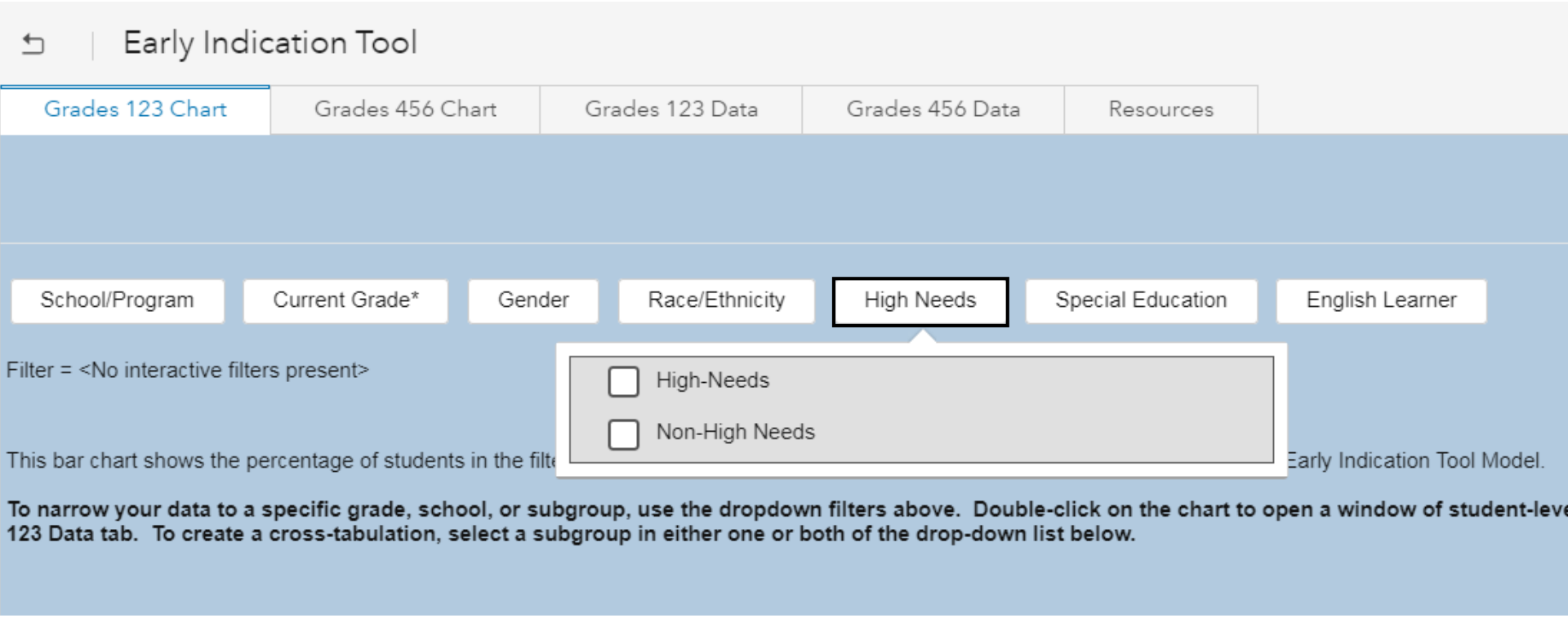
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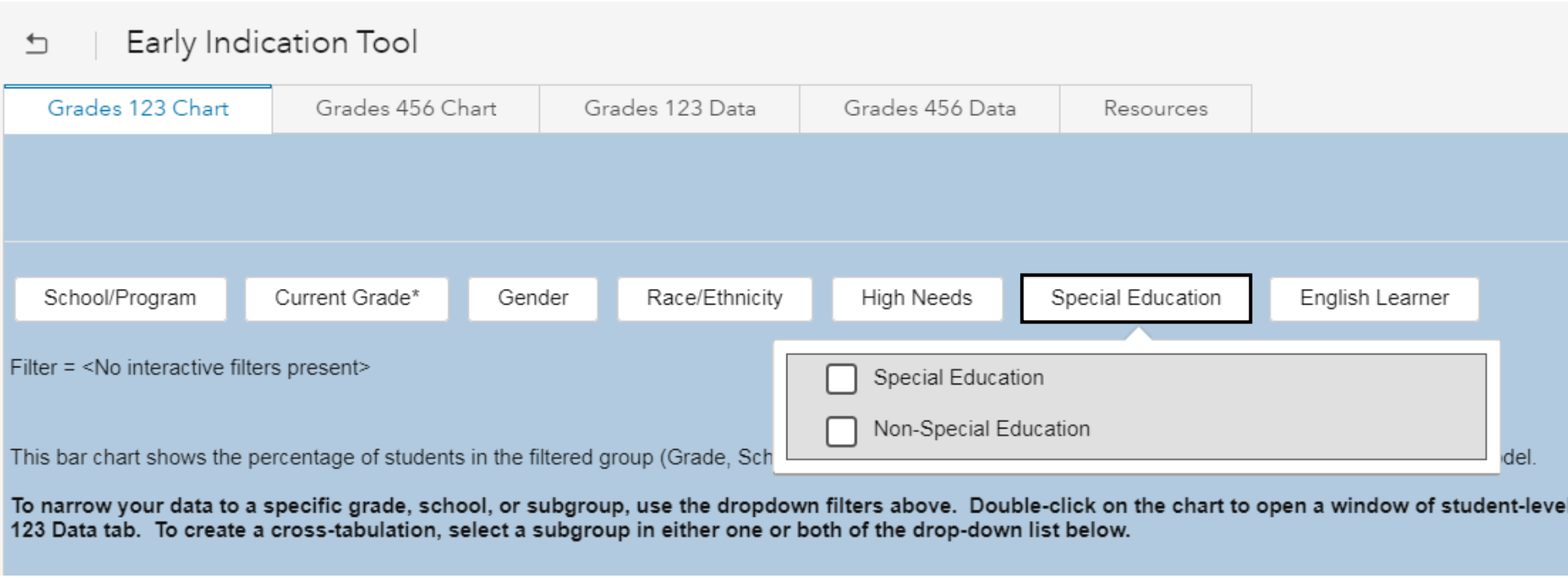
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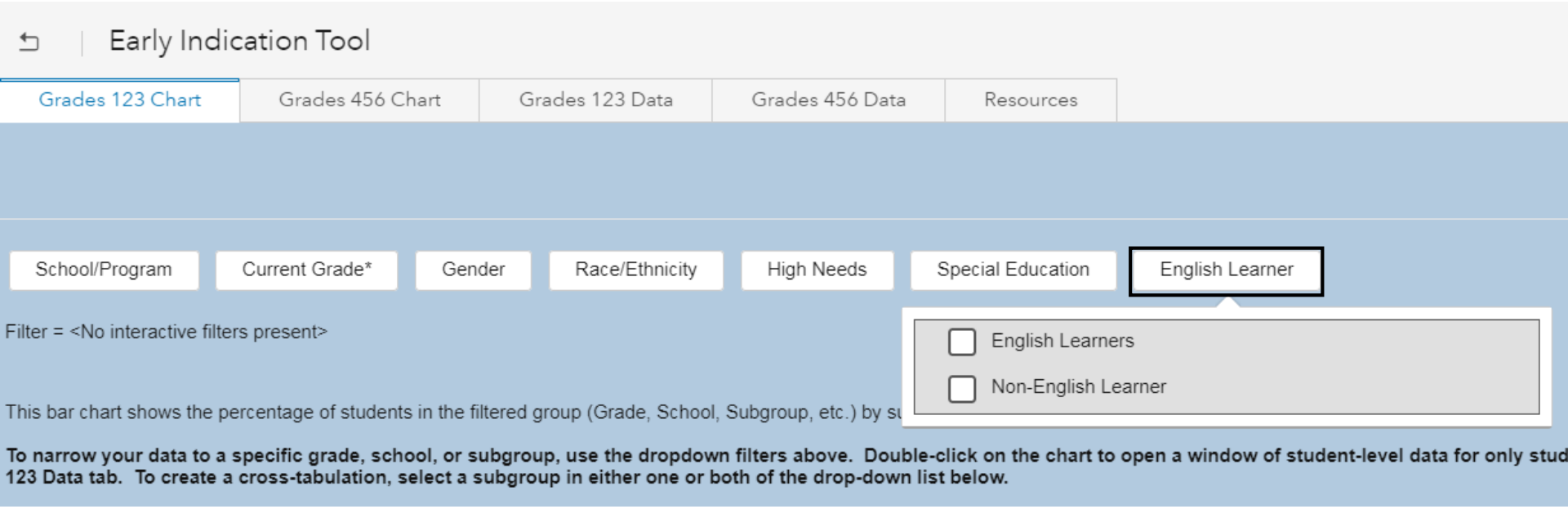
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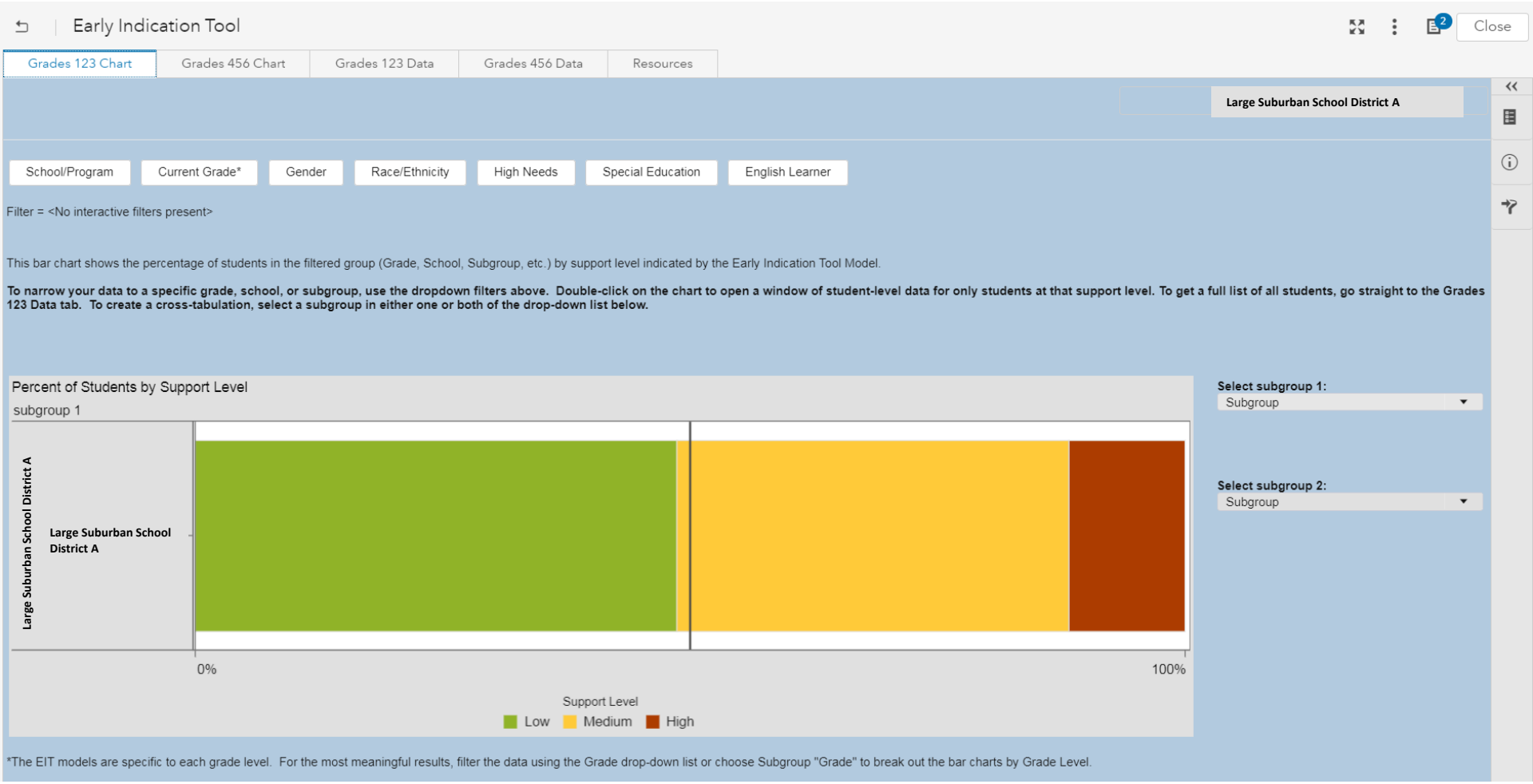
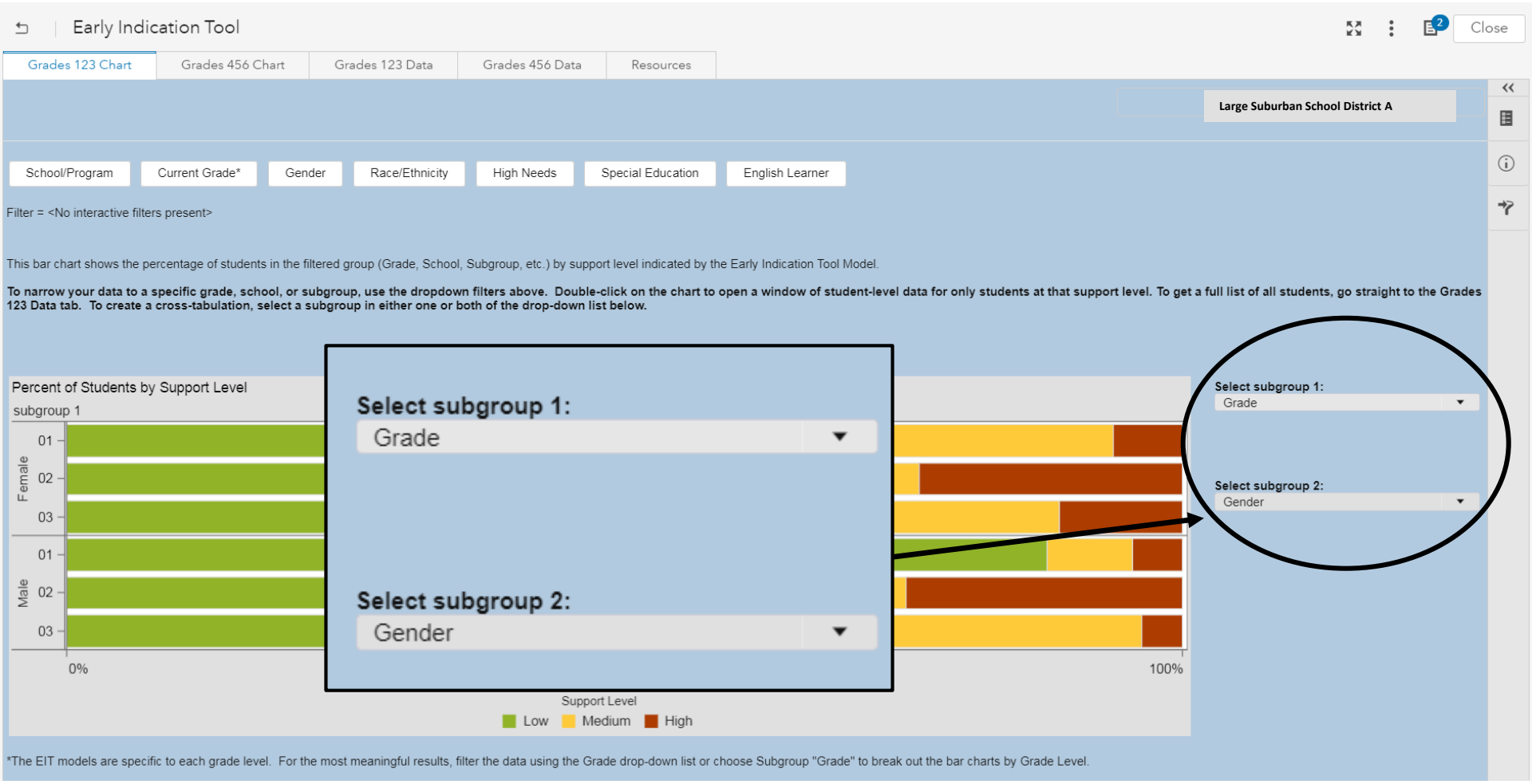

Early Indication Tool
Close
Grades 123 Chart
Grades 456 Chart
Grades 123 Data
Grades 456 Data
Resources
Large Suburban School District A
School/Program
Current Grade*
Gender
Race/Ethnicity
High Needs
Special Education
English Learner
Filter = <No interactive filters present>
This bar chart shows the percentage of students in the filtered group (Grade, School, Subgroup, etc.) by support level indicated by the Early Indication Tool Model.
To narrow your data to a specific grade, school, or subgroup, use the dropdown filters above. Double-click on the chart to open a window of student-level data for only students at that support level. To get a full list of all students, go straight to the Grades 123 Data tab. To create a cross-tabulation, select a subgroup in either one or both of the drop-down list below.
Percent of Students by Support Level
subgroup 1
Large Suburban School District A
Large Suburban School District A
0%
100%
Support Level
Low
Medium
High
Select subgroup 1:
Subgroup
Select subgroup 2:
Subgroup
*The EIT models are specific to each grade level. For the most meaningful results, filter the data using the Grade drop-down list or choose Subgroup "Grade" to break out the bar charts by Grade Level.


Early Indication Tool
Close
Grades 123 Chart
Grades 456 Chart
Grades 123 Data
Grades 456 Data
Resources
Large Suburban School District A
School/Program
Current Grade*
Gender
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High Needs
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Filter = <No interactive filters present>
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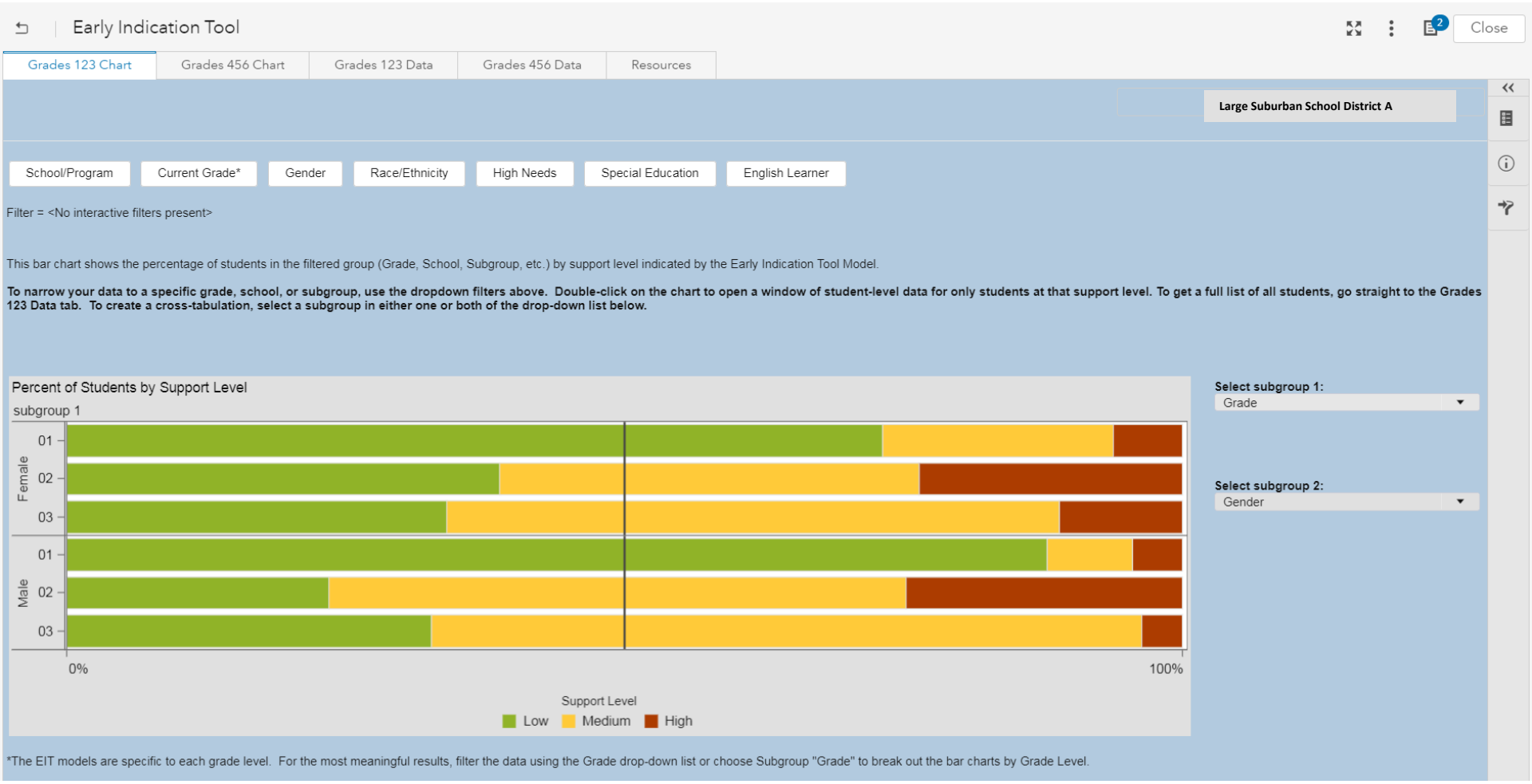
Percent of Students by Support Level
subgroup 1
Female
Male
01
02
03
0%
100%
Support Level
Low
Medium
High
Select subgroup 1:
Grade
Select subgroup 2:
Gender
*The EIT models are specific to each grade level. For the most meaningful results, filter the data using the Grade drop-down list or choose Subgroup "Grade" to break out the bar charts by Grade Level.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Grades 123 Chart
Grades 456 Chart
Grades 123 Data
Grades 456 Data
Resources
Large Suburban School District A
School/Program
Current Grade*
Gender
Race/Ethnicity
High Needs
Special Education
English Learner
Filter = <No interactive filters present>
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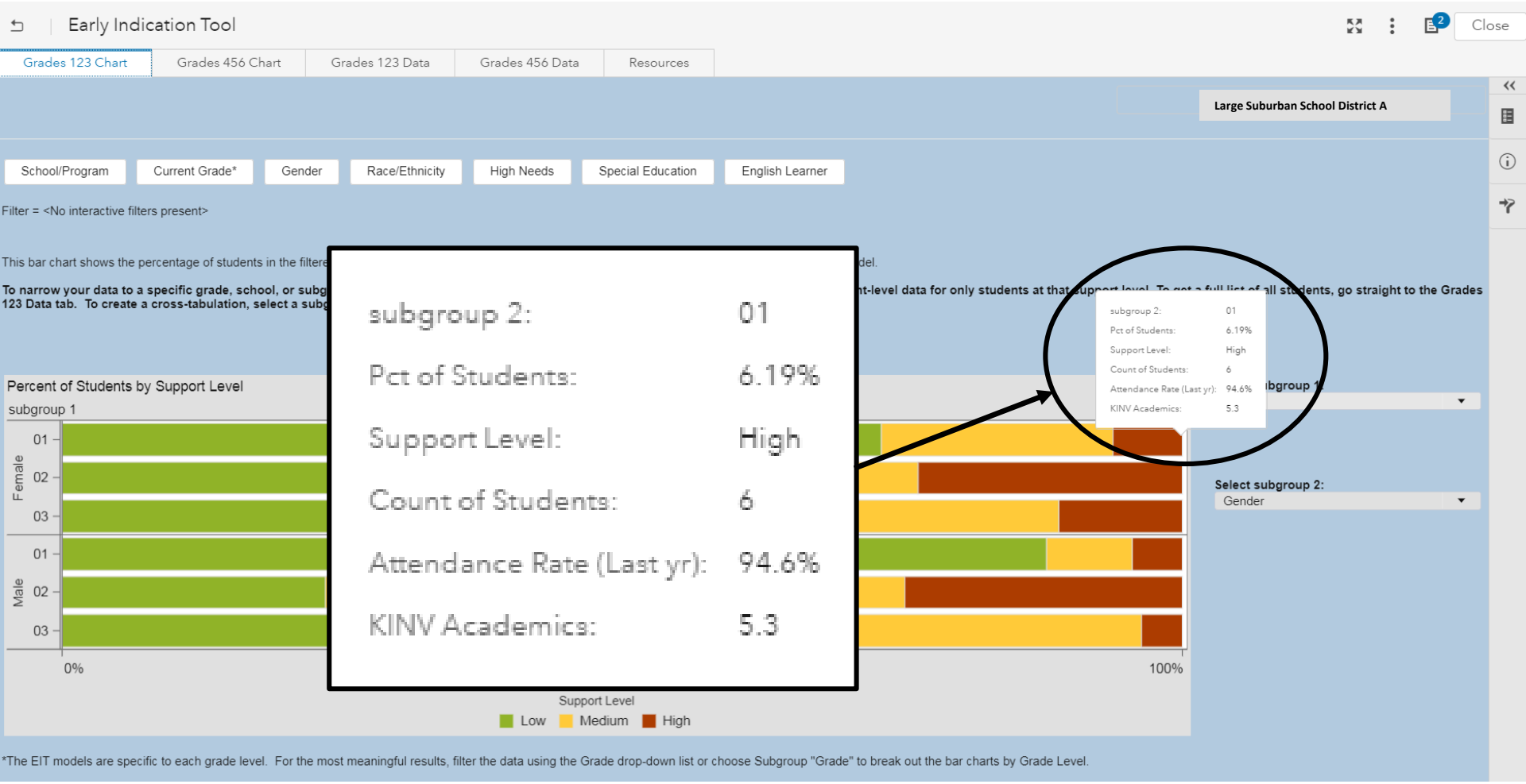
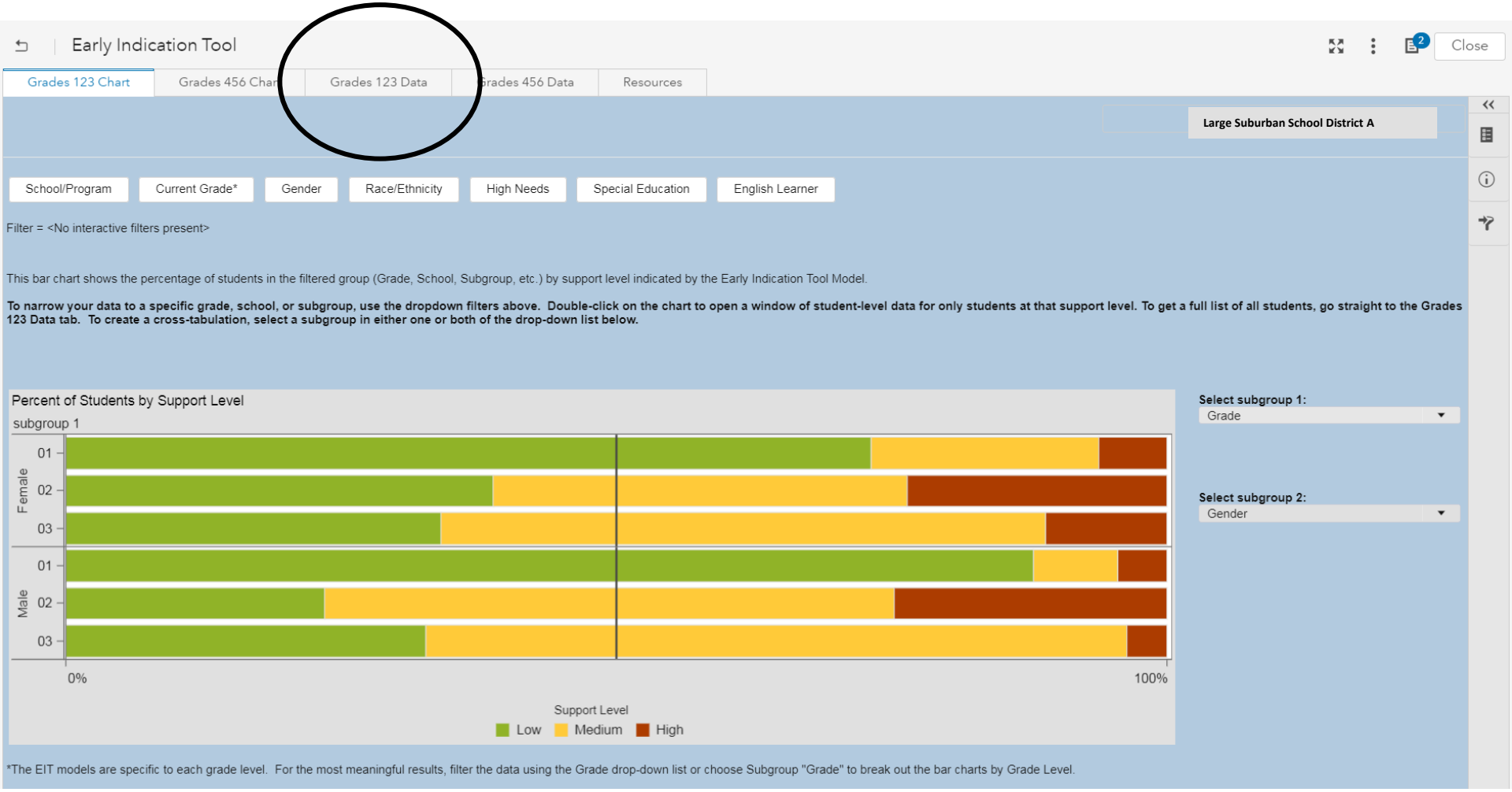
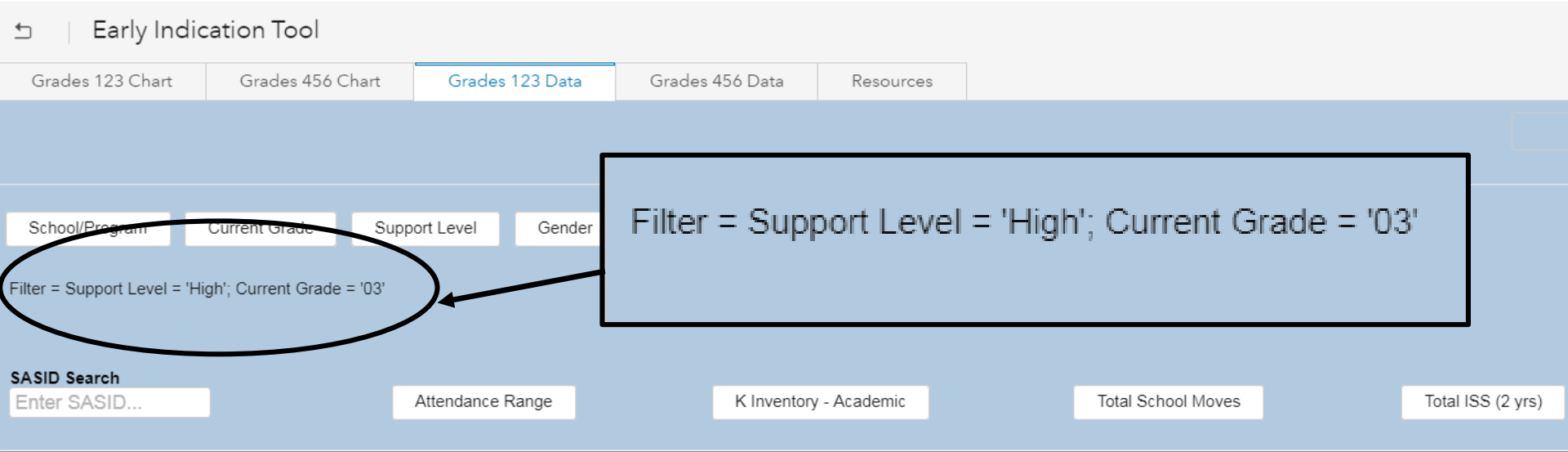
Percent of Students by Support Level
subgroup 1
Female
Male
01
02
03
0%
100%
Support Level
Low
Medium
High
Select subgroup 1:
Grade
Select subgroup 2:
Gender
*The EIT models are specific to each grade level. For the most meaningful results, filter the data using the Grade drop-down list or choose Subgroup "Grade" to break out the bar charts by Grade Level.


Early Indication Tool
Close
Grades 123 Chart
Grades 456 Chart
Grades 123 Data
Grades 456 Data
Resources
Large Suburban School District A
School/Program
Current Grade*
Gender
Race/Ethnicity
High Needs
Special Education
English Learner
Filter = <No interactive filters present>
This bar chart shows the percentage of students in the filtere
del.
To narrow your data to a specific grade, school, or subg
nt-level data for only students at that support level. To get a full list of all students, go straight to the Grades 123 Data tab. To create a cross-tabulation, select a subg
Percent of Students by Support Level
subgroup 1
Female
Male
01
02
03
0%
100%
Support Level
Low
Medium
High
Select subgroup 2:
Gender
subgroup 2: 01
Pct of Students: 6.19%
Support Level: High
Count of Students: 6
Attendance Rate (Last yr): 94.6%
KINV Academics: 5.3
*The EIT models are specific to each grade level. For the most meaningful results, filter the data using the Grade drop-down list or choose Subgroup "Grade" to break out the bar charts by Grade Level.

Early Indication Tool
Close
Grades 123 Chart
Grades 456 Chart
Grades 123 Data
Grades 456 Data
Resources
Large Suburban School District A
School/Program
Current Grade*
Gender
Filter = <No interactive filters present>
This bar chart shows the percentage of students in the filtered group (Gr
To narrow your data to a specific grade, school, or subgroup, use t
123 Data tab. To create a cross-tabulation, select a subgroup in eit
el. To get a full list of all students, go straight to the Grades
Bar Chart Info Window 123 for EIT Bar Chart
English Learner Status
Race/Ethnicity
Gender
High Needs
Support Level
Attendance Rate (Last yr)
Attendance Rate (2 yrs ago)
KINV Academic
English Learners
Asian
Female
High-Needs
High
96.7%
3
English Learners
Hispanic/Latino of any race
Female
High-Needs
High
90.6%
3
English Learners
Asian
Female
High-Needs
High
91.7%
92.5%
5
Average: 94.6%
Average: 91.5%
Average: 5
Close
Percent of Students by Support Level
subgroup 1
Female
Male
01
02
03
0%
100%
Support Level
Low
Medium
High
Select subgroup 1:
Grade
Select subgroup 2:
Gender
*The EIT models are specific to each grade level. For the most meaningful results, filter the data using the Grade drop-down list or choose Subgroup "Grade" to break out the bar charts by Grade Level.

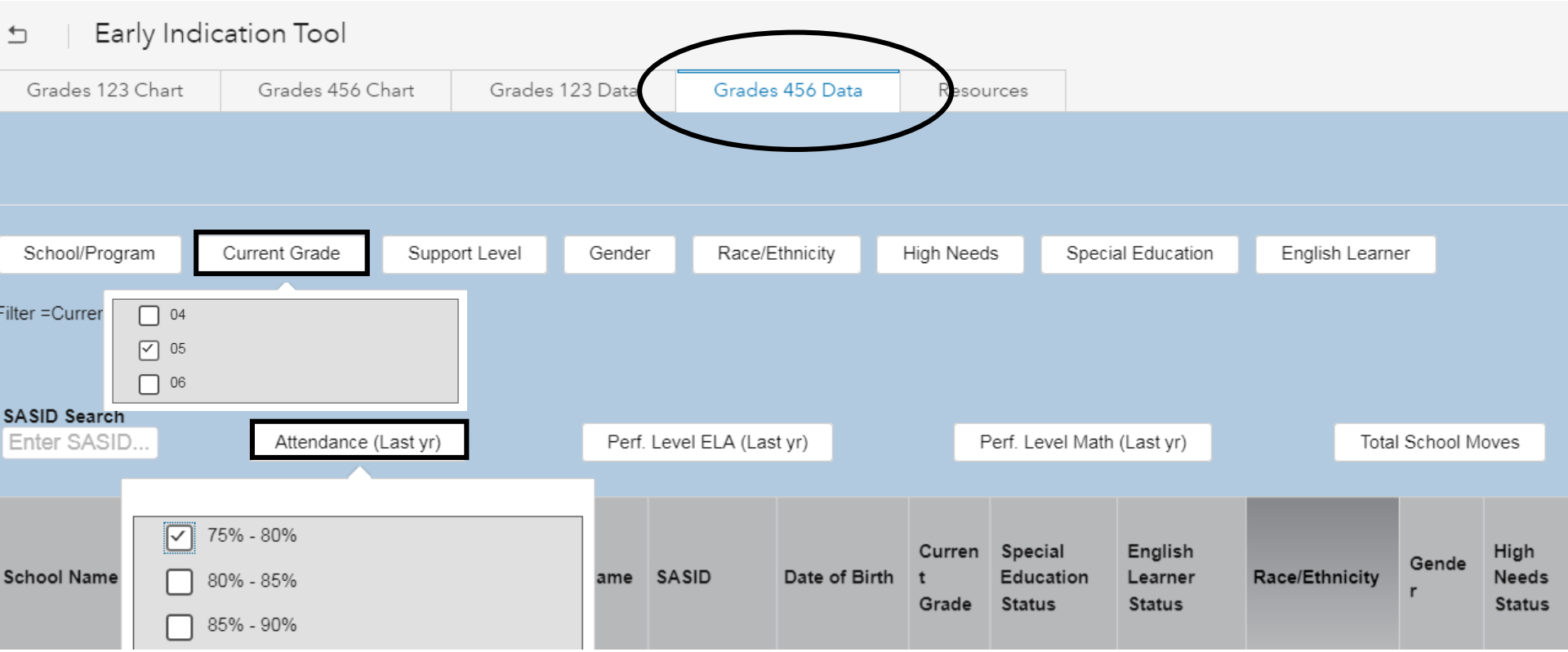

Early Indication Tool
Close
Grades 123 Chart
Grades 456 Chart
Grades 123 Data
Grades 456 Data
Resources
Large Suburban School District A
School/Program
Current Grade*
Gender
Race/Ethnicity
High Needs
Special Education
English Learner
Filter = <No interactive filters present>
This bar chart shows the percentage of students in the filtered group (Grade, School, Subgroup, etc.) by support level indicated by the Early Indication Tool Model.
To narrow your data to a specific grade, school, or subgroup, use the dropdown filters above. Double-click on the chart to open a window of student-level data for only students at that support level. To get a full list of all students, go straight to the Grades 123 Data tab. To create a cross-tabulation, select a subgroup in either one or both of the drop-down list below.
Percent of Students by Support Level
subgroup 1
Female
Male
01
02
03
0%
100%
Support Level
Low
Medium
High
Select subgroup 1:
Grade
Select subgroup 2:
Gender
*The EIT models are specific to each grade level. For the most meaningful results, filter the data using the Grade drop-down list or choose Subgroup "Grade" to break out the bar charts by Grade Level.

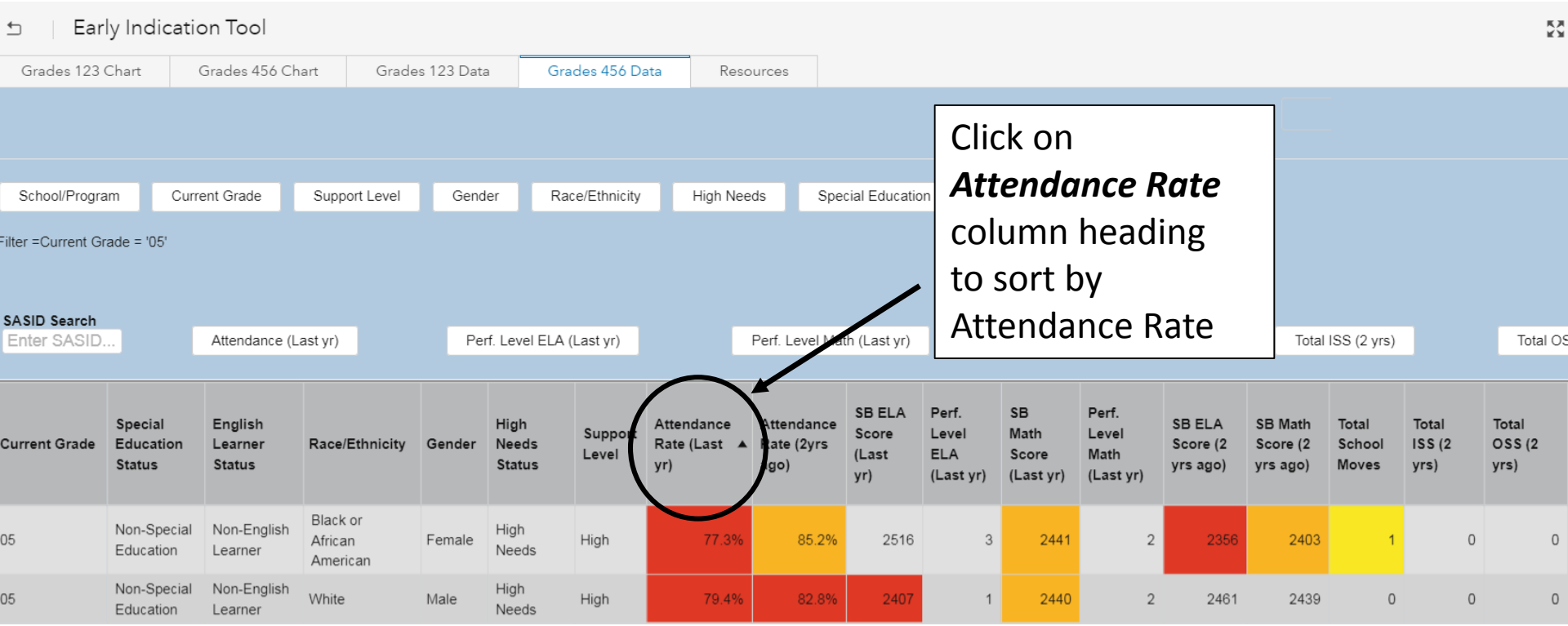


ıde	Special Education Status	English Learner Status	Race/Ethnicity	Gender	High Needs	Support Level	Attendance Rate (Last yr) ▲	Attendance Rate (2 yrs ago)	KINV Academic	KINV Non-Academic	Total School Moves	Total ISS (2 yrs
	Special Education	Non-English Learner	Black or African American	Female	High-Needs	High	82.9%	82.8%	5	5	0	
	Non-Special Education	Non-English Learner	White	Male	Non-High Needs	High	86.2%	82.8%	6	6	0	
	Special Education	Non-English Learner	White	Female	High-Needs	High	87.2%	91.1%	4	3	0	

Filtering & Sorting:

An example with
Grades 456 Data


Early Indication Tool
Grades 123 Chart
Grades 456 Chart
Grades 123 Data
Grades 456 Data
Resources
School/Program
Current Grade
Support Level
Gender
Race/Ethnicity
High Needs
Special Education
English Learner
Filter =Currer
04
05
06
SASID Search
Enter SASID...
Attendance (Last yr)
Perf. Level ELA (Last yr)
Perf. Level Math (Last yr)
Total School Moves
75% - 80%
80% - 85%
85% - 90%
School Name
ame
SASID
Date of Birth
Curren t Grade
Special Education Status
English Learner Status
Race/Ethnicity
Gende r
High Needs Status



Current Grade	Special Education Status	English Learner Status	Race/Ethnicity	Gender	High Needs Status	Support Level	Attendance Rate (Last yr) ▲	Attendance Rate (2yrs ago)	SB ELA Score (Last yr)	Perf. Level ELA (Last yr)	SB Math Score (Last yr)	Perf. Level Math (Last yr)	SB ELA Score (2 yrs ago)	SB Math Score (2 yrs ago)	Total School Moves	Total ISS (2 yrs)	Total OSS (2 yrs)
05	Non-Special Education	Non-English Learner	Black or African American	Female	High Needs	High	77.3%	85.2%	2516	3	2441	2	2356	2403	1	0	0
05	Non-Special Education	Non-English Learner	White	Male	High Needs	High	79.4%	82.8%	2407	1	2440	2	2461	2439	0	0	0

ROLLOUT

- Timeline: Grades 1 to 12 will “go live” in November 2018
- Training webinars
- Encourage district feedback and input
- Continuous improvement of models and reports
- Expand the Targeted Support Library

- Feedback & Suggestions
- Questions

THANK YOU!

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References

Allensworth, E. M., & Easton, J. Q. (2005). *The on-track indicator as a predictor of high school graduation*. Chicago, IL: CCSR.

Allensworth, E. M., & Easton, J. Q. (2007). *What matters for staying on-track and graduating in Chicago public high schools: A close look at course grades, failures, and attendance in the freshman year*. Research report. Chicago, IL: CCSR.

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