ACT Data and Research: Taking Action to Assist our Students on Their College and Career Readiness Journeys

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Agenda

- What's New, Updates
- ACT Enhancements
- ACT College & Career Readiness Curriculum & Instruction
- Break
- ACT MO 2024 Grad Profile Report, Research & Data Tools
- Networking & Break
- College Preparedness
- Questions & Wrap Up



What's New & Updates

- SMCAA Sponsored AIM:
 - Valley Park (Feb 10-11, 2025 Math)
 - Meramec Valley R-III (Feb 20-21, 2025 Science)
 - Fox C-6 (Mar 3-4, 2025 English)
 - KIPP STL (March 6-7, 2025 Reading)
- National ACT Deep Dive events https://site.act.org/act-ccrw-2024-webinars#monitoring-growth
- WorkKeys Funding opportunity schools that have already received funding, what is your plan?
- PreACT Updates: A+, Online testing, pre/post testing (Secure option)
- District Testing window SY26





A dynamic event where leaders from **K-12, higher education, and workforce** sectors collaborate to tackle today's most critical challenges, sharing actionable insights and innovative strategies to shape the future of education and the workforce

- Inspirational Keynote Speakers
- Over 50 Impactful Sessions
- Insights that will Impower You to Lead Change
- Network with Leaders Across Sectors
- Join over 500 others who've signed up for registration alerts—secure your spot today!

Join us July 15-17, 2025 in Nashville!

Scan the QR Code for more information on the ACT Summit and registration



Early Bird rate deadline is April 1, 2025!

The ACT Enhancements



Enhancements to the ACT Test

Expand
National
Online



Advance Our Quality
Assessment
Practices



Provide More Time Per Item



& Reduce
Total Testing
Time



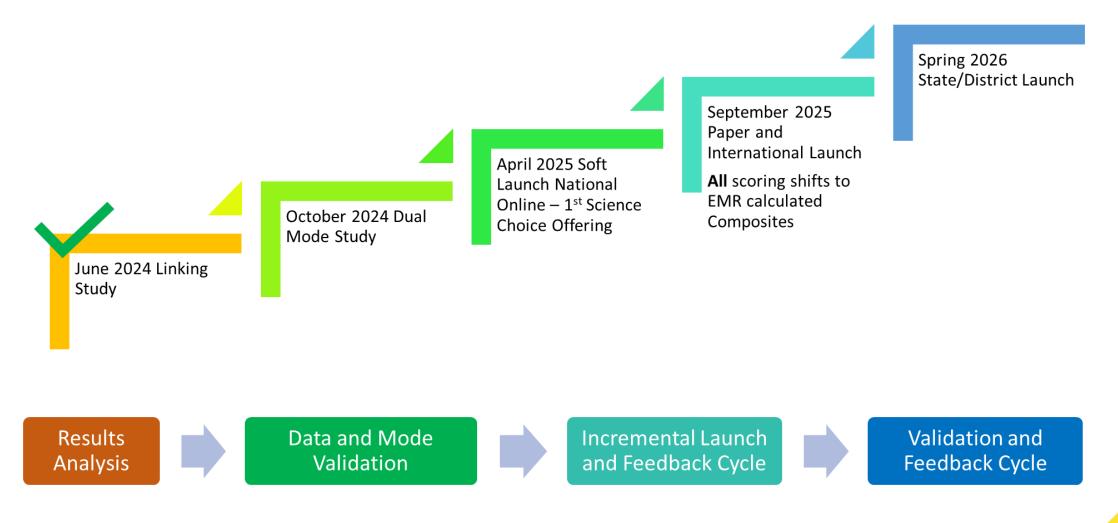
Respond to Learner & Higher Ed Feedback



Provide More Stakeholder Choice



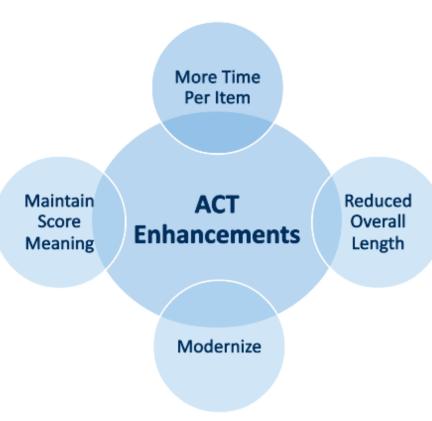
Timeline for the transition to the Enhanced ACT





Current vs. Proposed Future State

	Current State					
English	75 items	45 min				
Reading	40 items	35 min				
Math	60 items	60 min				
Science	40 items	35 min				
5 th Test^ (Field Test)	12-28 items	20 min				
Writing	1 item	40 mins				
	National + Writing S/D + writing	195 min 235 min 175 min 215 min				



Prop	oosed Future Sta	ite
English	50 items (10 FT)	35 min
Reading	36 items (9 FT)	40 min
Math	45 items (4 FT)	50 min
Science	40 items (6 FT)	40 mins
Writing	1 item	40 min
	National & S/D +Science +writing	125 min 165 min 205 min



[^] State/District students do not receive 5th test

Total count includes Field Test (FT) items

Current studies may result in adjustment to total minutes

Key Enhancements

Change	Description
More time per item	 Average of ~10 sec per item (varies among subjects).
Testing time reduced	 Composite score received after 125 minutes, rather than 195 or 175 minutes. For students taking all four current core subjects, ~30 minutes shorter for national testing. For students taking all four current core subjects, ~10 minutes shorter for state/district testing.
Fewer items per section	 ~44 items shorter in total (across English, math and reading). Minimized impact to reporting categories.
Eliminate the 5 th Test for National test takers	 Aligns testing experience for state/district and national testers – creating a more inclusive research sample when testing new items (prior EFTs were only in National). Test new items in real-world circumstances, not in isolated section. More field test items each year. Over time, will enable faster score reporting.
Learners can choose to take with or without science section (as writing is today)	 English, math, and reading sections taken by all students will generate a Composite score. When a student chooses to take science, it will appear as a section score and be used to calculate the STEM score (science + math) but will not be used to calculate the Composite (same as writing today). States/districts can choose to offer science and/or writing.



Key Enhancements: Estimated Time Per Item

Subject	Current (seconds/item)	Enhanced (seconds/item)	Est. Increase in seconds/item
English	36	42	6 (17%)
Math	60	67	7 (11%)
Reading	53	67	14 (27%)
Science	53	60	7.5 (15%)

Important Note: The enhanced ACT blueprint remains a linear assessment and is <u>not</u> a computer adaptive test. A student's max score potential is not routed into "tracks" based on their performance on initial section questions.

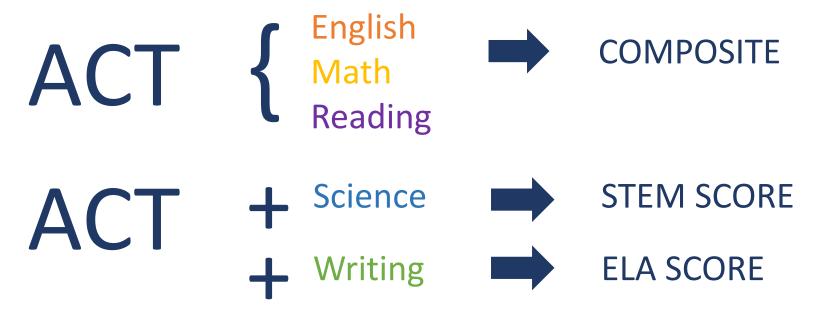


Key Enhancements

Sections	Changes to Items, Passages, and Other Specifications
English	 Adding stems. Reducing the length of some English passages. Adding an argumentative essay and items. Rebalancing reporting categories.
Math	 Reducing the number of foils in math from five to four. Reducing the number of items aligned to Integrating Essential Skills reporting category. Reducing the number of items aligned to advanced topics (higher grade level items). Reducing the number of items with context (require longer time to read). Rebalancing reporting categories.
Reading	 Reducing the length of some reading passages. Rebalancing reporting categories.
Science	 Ensuring at least one passage per form addresses an engineering and design topic. Increasing the number of items requiring scientific background knowledge (DCI). Rebalancing reporting categories.
Writing	No change.



New Composite Score: Starting Fall 2025



Starting in fall 2025, the ACT Composite will be English, math, and reading. Students can still take all five subjects previously offered on the ACT test, but they will have more flexibility to choose their own test experience tailored to their education needs.

Students who choose to take the science section will receive a STEM score, and students who choose to take the writing section will receive an ELA score.

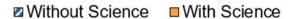


What Does The Research Say?



Research Update

- June linking study has reinforced the alignment of the new blueprint to ACT score predictability, validity, and rigor.
- Initial research and simulations show little impact of English, math and reading calculated Composite to aggregate score distribution as compared to historical Composite score calculations that included science.





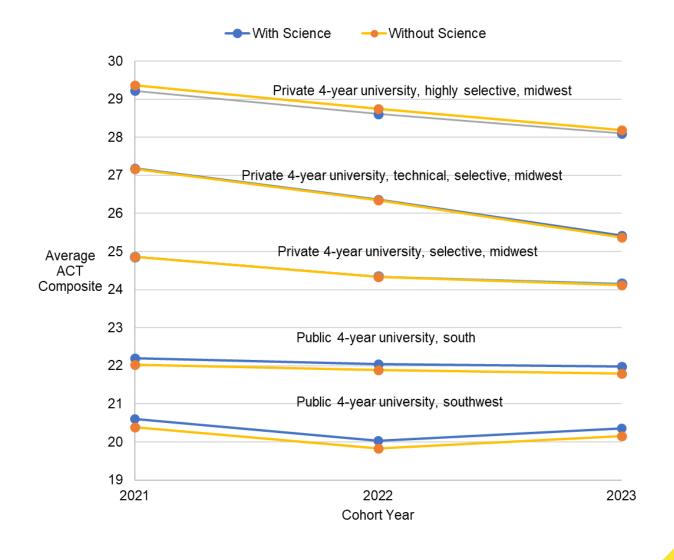


June 2024 Enhanced ACT



What does higher education say?

- The typical difference in the EMRS versus EMR composite score was +/ 0.1 score point
- June study data also shows that EMRS and EMR Composite scores have the same normative interpretation.







Will my institution need to change our ACT score criteria for admission, scholarships, etc.?

A: No. The research indicates consistent score distributions between historical English, math, reading, and science Composite scores, and the new English, math, and reading only calculation.

Additionally, we have reviewed prior cycle admission decisions and related ACT test scores for several different types of institutions and found little to no change in admission volumes when applying the EMR calculated Composites to previous admit pools.

ACT offers to collaborate with any institution that wishes to conduct an analysis of their use of ACT Composite scores in admission and scholarship criteria and review the application of the EMR only Composite scores to your institutional practices/policies



Will students be able to leverage the science choice to "game" their Composite score?

A: No. All Composite scores from all ACT programs (National, International, State & District, paper, online) will move to the new EMR calculated Composite score starting September 2025. This provides students and higher education with a consistent change over to the new calculation for all tests from that point forward.

Allowing students to choose to take the ACT with or without science does not impact the Composite score distributions across the population of applicants.

If a student elects to take the science section, we will provide their science section score and STEM score on all reports; this includes sending those scores to institutions of higher education and other programs that have used these scores in the past.



Will historical EMR and new EMRS Composites co-exist for a period of time?

A: Yes. When we soft launch the enhanced ACT for National Online testing in April, June and July 2025, those students will be reported using an EMR Composite (this will begin the choice for students to test with or without science). There will still be paper National, State & District, and International ACT test events (through the summer of 2025) that will have an EMRS calculated Composite from concurrent test events.

Additionally, we will not be retroactively recalculating student Composite scores for students who tested prior to the Composite score conversion.

Since ACT science has shown that the Composite scores calculated using EMR and EMRS are comparable, and ACT research scientists will continue to validate this through the changeover period, colleges and universities can continue to use the Composite for their required purposes (admissions, scholarship eligibility, placement, etc.).



Is there a cost difference to the student to take the ACT with or without science?

A: Final pricing will be set prior to the opening of registration for the April administration window. Our intention is to provide a "core" version of the ACT containing English, math and reading that is less expensive than today's four section ACT. ACT remains committed to our fee waiver programs which will continue to apply.



When will practice materials be available?

A: ACT has released timed and untimed practice sections in December aligned to the new blueprint. These practice tests are now in the platform students will use on test day, with all the appropriate tools and formatting.

You can find those practice tests here:

https://www.act.org/content/act/en/products-and-services/the-act/test-changes/online-testing/sample-questions.html

(Scroll to the bottom of the page to find the Full-Length Practice test section.)

In addition, we are making an addendum to the 2024-2025 Preparing for the ACT guide that highlights the different experiences students will encounter if they take the National Online administration in April, June and July.



Core Takeaways



The enhanced ACT blueprint focuses on reducing testing time while providing additional time for students to evaluate and respond to each item, embedding field test items for a more representative and larger sample, and continuous improvement of assessment best practices.



Starting in April 2025 students will be able to choose to take the ACT with or without science. All Composite scores will move to a simplified English, math and reading based calculation starting in September 2025.



ACT has provided online testing since 2015 for State & District testing, and since 2018 for international students. We launched online testing for National testing in February 2024 and will continue to expand online testing as a *choice*, but not *requirement* for students.



ACTIVITY #1 (5 min)

Go to the ACT Enhancements website, sign up for updates (if you'd like), browse the content. Check out the new
Sample Practice
Questions link - Sample
Questions - ACT Online
Testing | The ACT Test

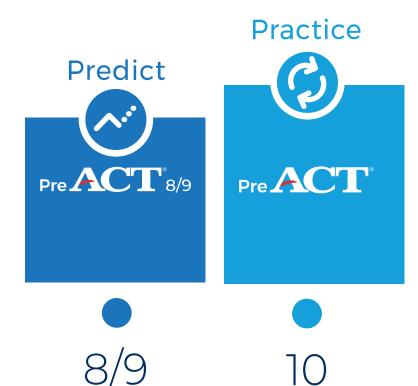


ACT College & Career Readiness



CONNECTED ASSESSMENTS

for College and Career Readiness













ACT College Readiness Benchmarks

Section	Scores*	First-Year College Course
English	18	English Composition
Math	22	College Algebra
Reading	22	Social Sciences
Science	23	Biology
ELA	20	English Composition and Social Sciences
STEM	26	Calculus, Chemistry, Biology, Physics, and Engineering

*The ACT College Readiness
Benchmarks are the ACT scores
that represent the level of
achievement required for
students to have a 50% chance
of obtaining a B or higher or
about a 75-80% chance of
obtaining a C or higher in
corresponding credit-bearing
courses.

ACT College Readiness Benchmarks



Standards-Based Performance Expectations



ACT[®] College and Career Readiness Benchmarks[™]

SUBJECT	THE ACT TEST
English	18
Math	22
Reading	22
Science	23
ELA	20
STEM	26

Table 2. ACT Cutoff Score Guide for Placement in First-Year College Courses

Course Type	ACT Test	Score Needed for 50% Chance of B or Higher
English Courses		
Standard Composition	English	18
Advanced Composition	English	19
Mathematics Courses		
College Algebra	Mathematics	22
Pre-Calculus	Mathematics	24
Trigonometry	Mathematics	24
Calculus	Mathematics	27
Social Science Courses		
American History	Reading	23
Other History	Reading	23
Psychology	Reading	22
Sociology	Reading	21
Political Science	Reading	22
Natural Science Courses		
Biology	Science	23
Chemistry	Science	26

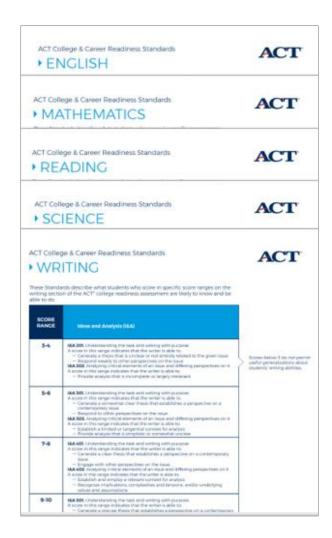
Scores associated with post-secondary success in credit-bearing courses



ACT College and Career Readiness Standards

- Communicate learning goals and expectations.
- Relate test scores to skills needed in high school and beyond.
- Understand the increasing complexity of skills needed across score ranges in English, mathematics, reading, science, and writing.

ACT College and Career Readiness Standards





Subject	Grade Level / Season	In Need of Intervention	Close to Target	On Target
	8, fall	1–7	8-9 (8-10)	10-30 (11-30)
	8, spring	1–7	8–10	11–30
	9, fall	1–8	9–11	12-30
English	9, spring	1–9	10–12	13–30
	10, fall	1–10	11–13	14–35
	10, spring	1–11	12–14	15–35
	11, fall	1–12	13–15	16–35
	8, fall	1–13 (1–12)	14–15 (13–14)	16–30 (15–30)
	8, spring	1–14 (1–13)	15–16 (14–15)	17–30 (16–30)
	9, fall	1–14	15–16	17–30
Math	9, spring	1–15	16–17	18–30
	10, fall	1–16	17–18	19–35
	10, spring	1–16	17–18	19–35
	11, fall	1–17	18–19	20–35
	8, fall	1–12 (1–11)	13–15 (12–14)	16–30 (15–30)
	8, spring	1–13 (1–12)	14–16 (13–15)	17–30 (16–30)
	9, fall	1–14 (1–13)	15–17 (14–16)	18–30 (17–30)
Reading	9, spring	1–15 (1–14)	16–18 (15–17)	19–30 (18–30)
	10, fall	1–16 (1–15)	17–19 (16–18)	20–35 (19–35)
	10, spring	1–17 (1–16)	18–20 (17–19)	21–35 (20–35)
	11, fall	1–18 (1–17)	19–21 (18–20)	22–35 (21–35)
	8, fall	1–13	14–16	17–30
	8, spring	1–14	15–17	18–30
	9, fall	1–15	16–18 (16–17)	19–30 (18–30)
Science	9, spring	1–16 (1–15)	17–18 (16–18)	19–30
	10, fall	1–17 (1–16)	18–19 (17–19)	20–35
	10, spring	1–18 (1–17)	19–20 (18–19)	21–35 (20–35)
	11, fall	1–19 (1–17)	20–21 (18–20)	22–35 (21–35)
	8, fall	1–16	17–18	19–30
	8, spring	1–17	18–19	20–30
	9, fall	1–18	19–20	21–30
STEM	9, spring	1–19	20–21	22–30
	10, fall	1–20	21–22	23–35
	10, spring	1–20 (1–21)	21–22 (22–23)	23–35 (24–35)
	11, fall	1–21	22–23	24–35

Updates to the PreACT Assessments
Readiness Levels

• The readiness levels were updated in spring 2024 to reflect the latest growth trends for students who completed high school from 2020 through 2024.

PreACT Readiness Levels Research



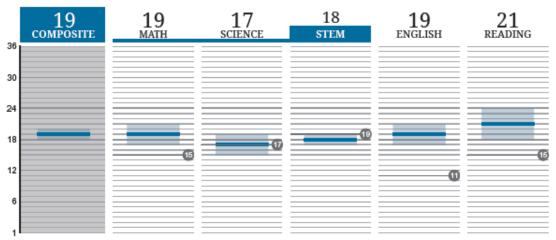
Note: Previous score range provided in parentheses when different than updated score range.

The ACT: MSIP6 Success Ready Categories

How can we know sooner? PreACT 8/9 and PreACT

Your PreACT® 8/9 Composite Score is 19 -

This graph shows your PreACT 8/9 scores and how they compare to the PreACT 8/9 Readiness Benchmarks.



Your Predicted PreACT® Composite Score Range is 21–24

The predicted PreACT score ranges assume you will have typical achievement growth and take the PreACT test in 10th grade.

COMPOSITE	MATH	SCIENCE	STEM	ENGLISH	READING	
Your Predicted ACT Composite Score Range is 22–26 The predicted ACT score ranges assume you will have typical achievement growth and take the ACT test in spring of 11th grade.						
22.20	22.27	20.25	20.25	22 27	22.20	
COMPOSITE	MATH	SCIENCE	STEM	ENGLISH	READING	

Progress Toward the ACT National Career Readiness Certificate® —

This indicator predicts the ACT National Career Readiness Certificate (ACT NCRC*) that students with this PreACT 8/9 Composite score are likely to obtain. The ACT NCRC is an assessment-based credential that documents foundational work skills important for job success across industries and occupations. Visit www.act.org/NCRC-indicator to learn more.

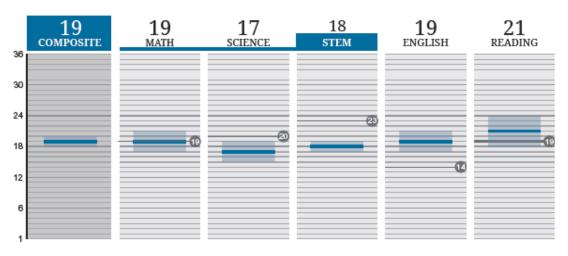


Your PreACT° Composite Score is 19 -

occupations. Visit www.act.org/NCRC-indicator to

learn more.

This graph shows your PreACT scores and how they compare to the PreACT Readiness Benchmarks.



Your Predicted ACT Composite Score Range is 20-23

rogress Toward the ACT National Career Readiness Certificate® —							
rogress roward the ACT National Career Readilless Certificate —							
s indicator predicts the ACT	National Career		Б	Bronze	Silver	Gold	Platinum
adiness Certificate (ACT NC	RC) that students				- 40		
	*						
h your PreACT Composite tain. The ACT NCRC is an		Composite Score			19		

Students with this Composite score are likely to obtain a Silver level on the ACT NCRC in the spring of 11th grade.



PreACT & PreACT 8/9 STUDENT REPORT

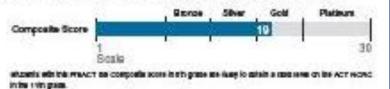
NCRC Indicator

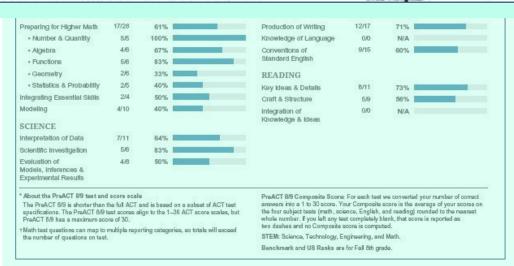
Predicts the ACT
National Career
Readiness Certificate
(NCRC) students are
likely to obtain



Progress Toward the ACT National Career Readiness Certificate •—

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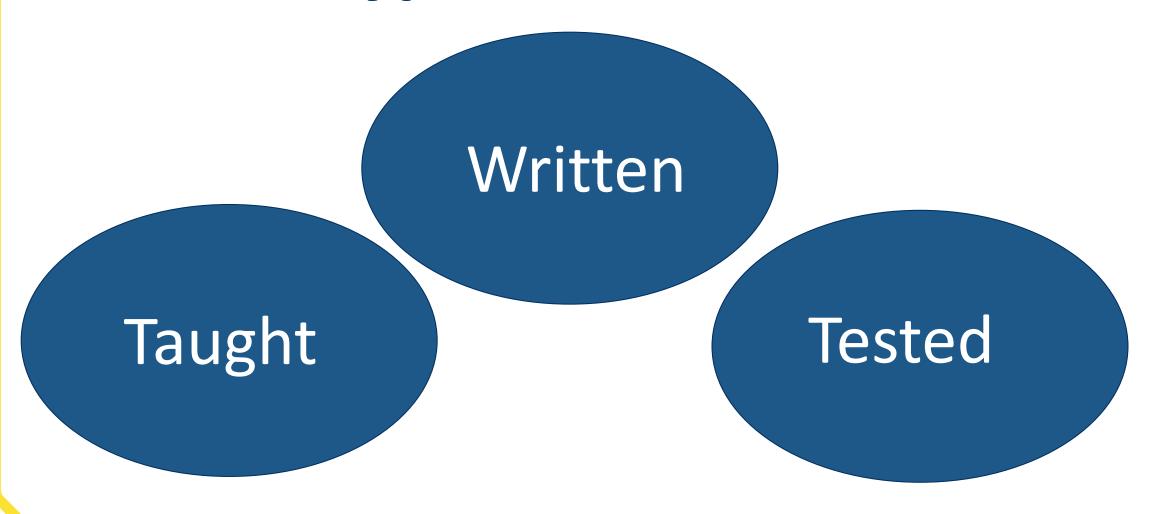


Curriculum & Instruction

Programmatic action to support teaching and learning



Three Types of Curriculum





Mapping ACT Standards Against District Curriculum



TOD 302. Identify the purpose of a word or phrase when the purpose is simple (e.g., identifying a person, defining a basic term, using common descriptive adjectives)

TOD 402. Identify the purpose of a word or phrase when the purpose is straightforward (e.g., describing a person, giving examples)

TOD 502. Identify the purpose of a word, phrase, or sentence when the purpose is fairly straightforward (e.g., identifying traits, giving reasons, explaining motivations)

TOD 602. Identify the purpose of a word, phrase, or sentence when the purpose is subtle (e.g., supporting a later point, establishing tone) or when the best decision is to delete the text in question

TOD 701. Identify the purpose of a word, phrase, or sentence when the purpose is complex (e.g., anticipating a reader's need for background information) or requires a thorough understanding of the paragraph and essay



What do students need to know and in what course?

WHAT:

Curriculum Review Worksheets (download at act.org/standards)

Creating a pathway of knowledge and skills to master for college and career readiness.

WHY:

Inform Grade level/course "Mastery" Targets

If we don't know what ALL students are to learn in a grade level or course, then we don't know "where and about what" to intervene!

English Curriculum Review Worksheets

Table 1. ACT English College and Career Readiness Standards for Score Range 13-15

			For eac	ch skill, knowledge, or p	rocess:
Engli	ish Col	llege and Career Readiness Standards	Is it included in your English curriculum?	At what grade level (or in which course) are students first introduced to it?	At what grade level (or in which course) are students expected to demonstrate proficiency?
TOD	201	Delete material because it is obviously irrelevant in terms of the topic of the essay			
ORG	201	Determine the need for transition words or phrases to establish time relationships in simple narrative essays (e.g., then, this time)			
KLA	201	Revise vague, clumsy, and confusing writing that creates obvious logic problems			
SST	201	Determine the need for punctuation or conjunctions to join simple clauses			
SST	202	Recognize and correct inappropriate shifts in verb tense between simple clauses in a sentence or between simple adjoining sentences			
USG	201	Form the past tense and past participle of irregular but commonly used verbs			
USG	202	Form comparative and superlative adjectives			
PUN	201	Delete commas that create basic sense problems (e.g., between verb and direct object)			

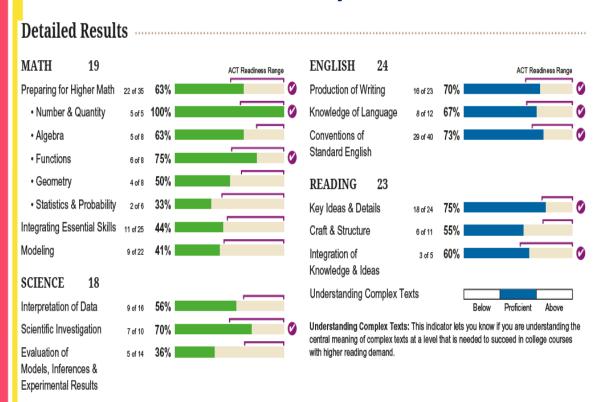


How do the ACT CCR Math Standards and Topics Represent in Course? How do the topics line up at your school?

Add, Subtract, Multiply, Divide whole numbers, integers, fractions, decimals Ordering number Absolute Value Factoring polynomials Square roots, exponents, scientific notation, Order of Operations, Percent Ratio and Proportions, Mean, Median, Mode Probability, counting Evaluating algebraic Evaluating algebraic Evaluating algebraic Expressions Distance and midpoint formulas Angles Graphs of circles & Values and properties of trigonometric relationships in right triangles Values and properties of trigonometric functions Using trigonometric identities Triangles Triangles Triangles Triangles Triangles Triangles Solving quadratic Froof & proof techniques Systems of equations Graphing equations and Incendiation, Order of Operations, Percent Ratio and Proportions, Mean, Median, Mode Probability, counting Inequalities Data collection, Perimeter, area and Volume formulas Sequences and patterns These topics are available for practice in	K-8/Pre-Algebra	Algebra I	Geometry	Algebra 2	Advanced Math/Trig
Solving linear equations ACT Online Prep!	Divide whole numbers, integers, fractions, decimals Ordering number Absolute Value Factors, primes, multiples Square roots, exponents, scientific notation, Order of Operations, Percent Ratio and Proportions, Mean, Median, Mode Probability, counting techniques Writing linear expressions and equations	expressions Properties of exponents and square roots Algebraic operations Factoring polynomials Solving quadratic equations by factoring Graphs of points and lines Slope of a line Graphing equations and systems of equations and inequalities Data collection,	formulas Angles Perpendicular & parallel lines Quadrilaterals Triangles Proof & proof techniques Circles Transformations Geometric formulas Three-dimensional geometry Perimeter, area and	a number line Graphs of circles & parabolas Solving inequalities Equations and inequalities w/absolute value Systems of equations Rational and radical expressions Quadratic formula Quadratic inequalities Complex numbers	in right triangles Values and properties of trigonometric functions Using trigonometric identities Trigonometry of the unit circle Graphing trigonometric functions These topics are available for practice in

Reporting Categories!

ACT Student Report



PreACT Student Report

Your Detailed PreACT Results ——

The scores below represent your performance on reporting categories measured by the test. Reporting category designations are provided to help you to start to focus on strengths and weaknesses. Categories with only a few items may be less representative of your overall achievement in that category.

MATH	Correct/Total†	Percent Correct	ENGLISH	Correct/Total	Percent Correct			
Preparing for Higher Math	13/21	62%	Production of Writing	10/14	71%			
 Number & Quantity 	3/3	100%	Knowledge of Language	5/7	71%			
• Algebra	3/5	60%	Conventions of	14/24	58%			
Functions	4/5	80%	Standard English					
Geometry	2/5	40%	READING					
 Statistics & Probability 	1/3	33%	Key Ideas & Details	10/14	71%			
Integrating Essential Skills	7/15	47%	Craft & Structure	4/8	50%			
Modeling	4/10	40%	Integration of	2/3	67%			
SCIENCE			Knowledge & Ideas					
Interpretation of Data	6/12	50%		Understanding Complex Texts		Profic		
Scientific Investigation	6/10	60%		This indicator lets you know if you are				
Evaluation of Models, Inferences & Experimental Results	2/8	25%	texts at a level that is need	understanding the central meaning of complex texts at a level that is needed to succeed in college courses with higher reading demand.				

* About the PreACT test and score scale

The PreACT is shorter than the full ACT and is based on a subset of ACT test specifications. The PreACT is reported on the same 1 to 36 score scales as the ACT, but PreACT has a maximum score of 35.

† Math test questions can map to multiple reporting categories, so totals will exceed the number of questions on test.

PreACT Composite Score: For each test we converted your number of correct answers into a 1 to 35 score. Your Composite score is the average of your scores on the four subject tests (math, science, English, and reading) rounded to the nearest whole number. If you left any test completely blank, that score is reported as two dashes and no Composite score is computed.

STEM: Science, Technology, Engineering, and Math.



Why are Reporting Categories Important?

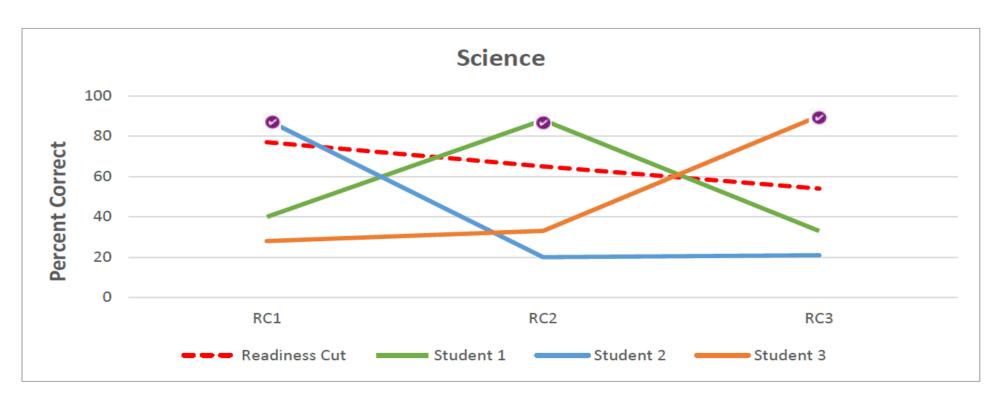


Figure 2. Example ACT Science Score Profiles

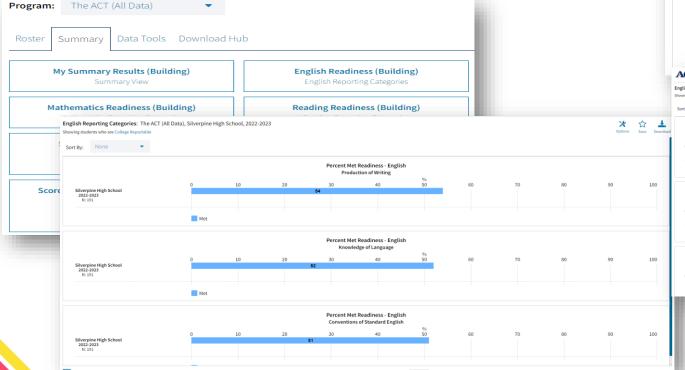
All Students scored an 18, but how did each student earn the 18?

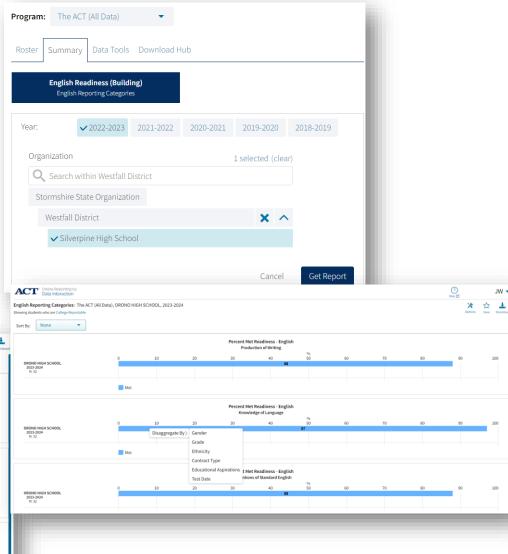


What story does your data tell?

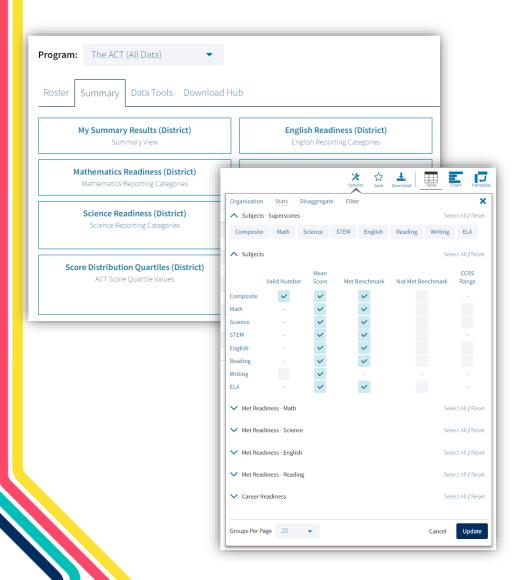
SPECIFICATION RANGES BY REPORTING CATEGORY

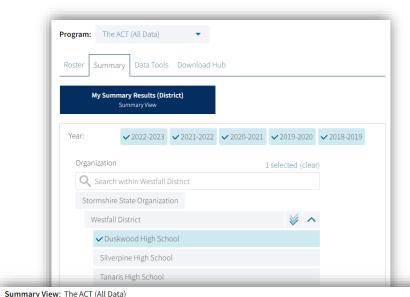
Reporting Category	Number of Items	Percentage of Test
Production of Writing	22–24	29–32%
Knowledge of Language	11–13	15–17%
Conventions of Standard English	39–41	52-55%
Total Number of Items	75	100%





Percentage Meeting Benchmarks





		Composite				Math	Science		
		Valid	Mean	Meeting All 4 Benchmarks	Mean	Benchmark	Mean	Benchmark	
Group	Year	Number	Score	% Met	Score	% Met	Score	% Met	
Westfall District	2022-2023	562	19.9	20	19.0	28	20.3	35	
Westfall District	2021-2022	15441	24.3	48	23.3	61	24.0	61	
Westfall District	2020-2021	8073	19.0	19	18.7	28	19.3	28	
Westfall District	2019-2020	12776	18.8	17	18.5	25	19.2	27	
Westfall District	2018-2019	17073	18.7	16	18.4	25	18.8	25	
Duskwood High School	2022-2023	184	19.7	17	18.8	26	20.1	31	
Duskwood High School	2021-2022	5080	24.3	48	23.3	60	24.0	61	
Duskwood High School	2020-2021	2811	19.0	18	18.6	27	19.2	28	
Duskwood High School	2019-2020	4282	18.8	17	18.6	25	19.1	27	
Duskwood High School	2018-2019	5762	18.7	17	18.5	26	18.9	25	



	4	Α	В	С	D	Ε	F	G	Н	- 1	J	K	L	М	N
	1		Career Choice	Con	nposite	N	lath	Sc	ience	S	TEM	En	glish	Re	ading
					Predicted		Predicted		Predicted		Predicted		Predicted		Predicted
	2	Name		Score	ACT	Score	ACT	Score	ACT	Score	ACT	Score	ACT	Score	ACT
	3	Name	No response	11	11 - 14	13	12 - 16	10	11 - 16	12	12 - 15	14	14 - 19	5	08 - 14
			Computer &												
			Information												
	4	Name	Specialties	11	11 - 14	14	13 - 17	9	11 - 16	12	12 - 15	11	11 - 16	9	10 - 16
D	5	Name	No response	12	12 - 15	14	13 - 17	15	15 - 20	15	15 - 18	10	11 - 16	7	09 - 15
Z e	6	Name	No response	12	12 - 15	15	14 - 18	12	13 - 18	14	14 - 17	8	09 - 14	13	12 - 18
9	7	Name	Marketing & Sales	12	12 - 15	11	10 - 14	13	13 - 18	12	12 - 15	7	08 - 13	15	14 - 19
e e	8	Name	Management	13	13 - 16	13	12 - 16	12	13 - 18	13	13 - 16	11	11 - 16	14	13 - 19
Z			Communications												
c 4	9	Name	& Records	13	13 - 16	14	13 - 17	9	11 - 16	12	12 - 15	12	12 - 17	15	14 - 19
0 0	10		Health Care	13	13 - 16	15	14 - 18	17	16 - 21	16	16 - 19	11	11 - 16	10	11 - 16
tion 1-1	11	Name	No response	13	13 - 16	16	15 - 19	12	13 - 18	14	14 - 17	12	12 - 17	10	11 - 16
Intervention Needed 1-14	12		Financial	42	42 40	42	42 46	45	45 20		44.47		40 45	42	40 40
Ģ	13		Transactions	13 14	13 - 16 14 - 17	13 13	12 - 16 12 - 16	15 14	15 - 20 14 - 19	14 14	14 - 17 14 - 17	9	10 - 15 11 - 16	13	12 - 18
2	13	Name	Management Transport	14	14 - 1/	13	12 - 10	14	14 - 19	14	14 - 17	10	11 - 10	19	16 - 22
e			Operation &												
	14	Name	Related	14	14 - 17	14	13 - 17	18	17 - 22	16	16 - 19	9	10 - 15	13	12 - 18
=	15		Marketing & Sales	14	14 - 17	15	14 - 18	19	18 - 23	17	17 - 20	13	13 - 18	10	11 - 16
	13	Ivanie	Community	-14	14-11	-10	14-10	-13	10-23		11 - 20	10	10 - 10	-10	11-10
	16	Name	Services	14	14 - 17	17	17 - 20	18	17 - 22	18	18 - 21	14	14 - 19	7	09 - 15
	17		Personal Services	15	15 - 18	15	14 - 18	18	17 - 22	17	17 - 20	12	12 - 17	16	14 - 20
		Name	No response	15	15 - 18	15	14 - 18	14	14 - 19	15	15 - 18	15	15 - 20	15	14 - 19
0			Medical Diagnosis												
SD 0	19	Name	& Treatment	15	15 - 18	15	14 - 18	14	14 - 19	15	15 - 18	9	10 - 15	22	19 - 24
On the Cusp 15-16			Creative &												
a) ry	20	Name	Performing Arts	15	15 - 18	17	17 - 20	17	16 - 21	17	17 - 20	9	10 - 15	17	15 - 21
he 1			Financial												
Ţ	21	Name	Transactions	16	16 - 19	16	15 - 19	17	16 - 21	17	17 - 20	12	12 - 17	20	17 - 23
			Engineering &												
0	22		Technologies	16	16 - 19	19	19 - 22	13	13 - 18	16	16 - 19	16	16 - 21	15	14 - 19
	23		Management	17	17 - 20	17	17 - 20	17	16 - 21	17	17 - 20	13	13 - 18	19	16 - 22
	24	Name	No response	17	17 - 20	16	15 - 19	20	18 - 23	18	18 - 21	16	16 - 21	17	15 - 21
	25		Medical Diagnosis												
	25	Name	& Treatment	18	18 - 21	13	12 - 16	18	17 - 22	16	16 - 19	15	15 - 20	24	21 - 26
et			Ameiouttura												
	26	Name	Agriculture	40	40 24	47	47 20	20	40 22	40	40 22	44	44 40	40	40 22
irg 30	20	rvame	Forestry & Related Financial	18	18 - 21	17	17 - 20	20	18 - 23	19	19 - 22	14	14 - 19	19	16 - 22
	27	Name	Transactions	19	19 - 22	16	15 - 19	11	12 - 17	14	14 - 17	15	15 - 20	35	31 - 36
On Ta	21	Hame	Medical Diagnosis	13	13-22	10	10-10	-11	12-11	14	14-17	10	10 - 20	30	31-30
٦ ۲	28	Name	& Treatment	20	20 - 23	22	22 - 25	19	18 - 23	21	20 - 24	20	19 - 24	19	16 - 22
0		Name	No response	23	23 - 26	16	15 - 19	22	20 - 25	19	19 - 22	20	19 - 24	35	31 - 36
		Name	Marketing & Sales	28	28 - 31	22	22 - 25	24	22 - 27	23	22 - 26	30	30 - 35	35	31 - 36
			Natural Science &												
	31	Name	Technologies	30	30 - 34	29	28 - 32	31	28 - 33	30	30 - 33	30	30 - 35	29	25 - 31

Student Learning Needs

- Who needs additional support?
- What support do they need?

IDEAS FOR PROGRESS – see link below

	0-1-101-1-1				
Control Characterist Deviktored			or Progress by ACT.inc.	- €	₽ &
ACT'		Sk	ill Enhancement for Reading (Benchmark = 22)		Select Confent Area Reading (Benchmark = 22) Select ACT Score Range(s)
Content Strand	Content Substrand		ities within Select College and Career Readiness Standards (CCRS) Score Range(s) Suppessed Activities	Click for More Detail	✓ 01-12 ✓ 13-15 ✓ 16-19
Key Ideas and Details	Close Reading		Combine several pieces of information to draw a logical conclusion about a specific character.	0	✓ 20-23 ✓ 24-27 ✓ 28-32
		01-12	Locate and discuss details presented in a text (e.g., who, what, where, when).	0	Select Content Strand(s) () (All) () Key Ideas and Details () Craft and Structure () Integration of Knowledge and Ideas
		V1-12	Make predictions about characters and events presented in a literary narrative, verify or reject those predictions, and make new ones while reading.	\circ	Select Content Sub-Strand(s) (English and Reading Only)
			Recognize generalizations about the main character in a literary narrative.	0	(All) Close Reading Central Ideas, Themes, and Summaries Relationships
		13-15	Draw reasonable conclusions about people and situations using evidence presented in increasingly challenging texts.	0	✓ Word Meanings and Word Choice ✓ Text Structure ✓ Purpose and Point of View ✓ Arguments
		Scan a text to locate specific details (e.g., dates, specialized terms, facts).		Search for Keywords in Suggested Activities (click 'x' to undo search)	
			Identify inaccurate generalizations (e.g., stereotypes) in written or nonprint sources.	0	
			Make reasoned judgments about ideas and events based on evidence from written or nonprint sources.	0	

https://public.tableau.com/app/profile/act2044/viz/ContentStandardsandldeasforProgress/ContentStandardsDashboard?publish=yes

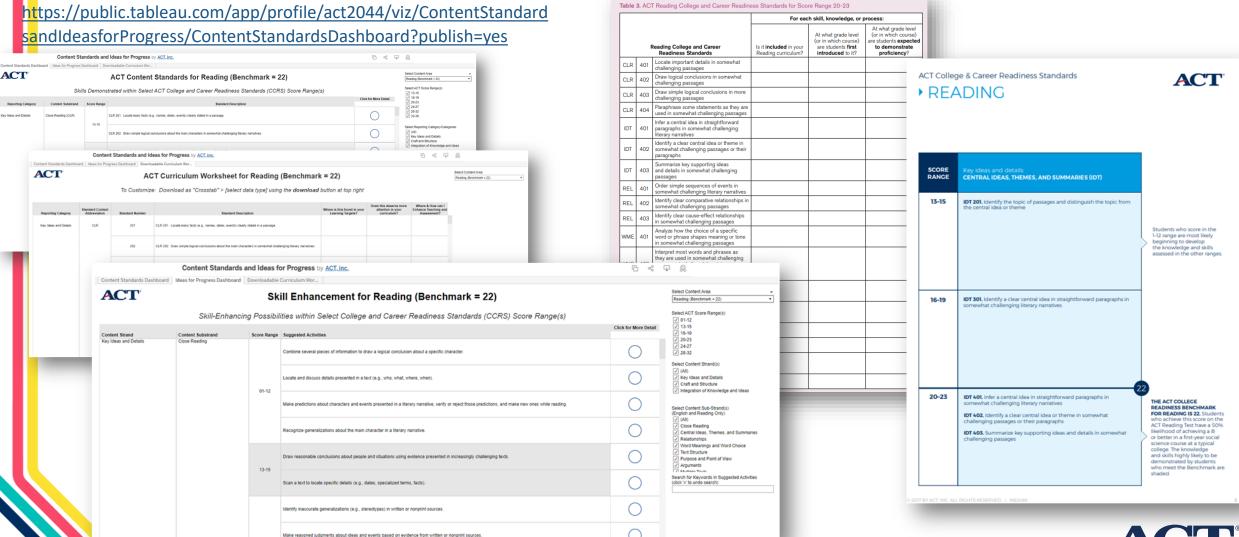
PreACT Readiness Levels Research



Utilize ACT Resources

Ideas for Progress: 3 tabs

https://public.tableau.com/app/profile/act2044/viz/ContentStandard



ACT Curriculum Worksheets

choose format that fits your purpose best

www.act.org - search Curriculum Review Worksheets and

QUESTIONS & DISCUSSION

- 1. How do you ensure that assessments align with the learning objectives and curriculum standards?
- 2. In what ways do you use assessment data to inform instructional practices and differentiate instruction to meet individual student needs?
- 3. How do you involve students in the assessment process, and how do you provide them with feedback on their performance?
- 4. What strategies or interventions do you implement based on assessment results to support struggling students and/or additional enrichment?
- 5. How do you monitor and track student progress over time using assessments, and how do you communicate this information to students, parents, and other stakeholders?





ACTIVITY # 2 (10 min)

Think-Pair-Share: Take a moment to reflect on a question or discussion topic utilizing the tools/resources we've discussed. Then pair up with a partner (or two) to discuss thoughts. Finally, share your ideas with the larger group!







2024 ACT MO Graduate Profile Report



ACT: Comprehensive Readiness

- •Academic Achievement Section Tests:
 - English
 - Math
 - Reading
 - Science (STEM score)
 - Writing (optional. ELA score)
- College Readiness Benchmarks:

Section-specific benchmarks

STEM benchmark

Career Readiness Indicator:

Progress Toward the ACT National Career Readiness Certificate

- Additional Information:
 - High School Grade and Course Information
 - Student Profile Section
 - interest Inventory



Which students are considered part of the graduating class?

Took the test at least once in 10th, 11th or 12th grade

Data uses

most recent test score

National Testing
State and District Testing
Retesting



Missouri Celebrations



Missouri Students Soar: ACT Participation Climbs for Third Consecutive Year, Showcasing Ambition and Drive for Opportunity!



Missouri's Perfect Scores Skyrocket:

60 Graduates Ace Test in 2024 Compared to 47 in 2023!



Missouri's Class of 2024 ACT Performance At-A-Glance

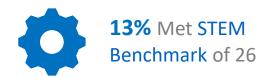




65% predicted
Silver+ ACT National
Career Readiness
Certificate (NCRC)



L English	18.3	50%	
Math	18.8	27%	
Reading	20.2	39%	
Science	19.6	29%	



Top 3 STEM Aspirations:







Sciences

Engineering

Health Sciences

Section Mean Scores & College Readiness Benchmark %



Missouri's Student Testing Patterns

Total Number of Testers: 41,579



ACT District Testing Rate: 53%



Retesting Behaviors:

➤ Tested 2+: 44% with 65% testing senior year.



Junior vs. Senior Year Testing:

- > ACT District Testing: 83% vs. 16%
- ➤ National: 31% vs. 67%



Spring vs. Fall ACT District Testing:

- > Spring: 89% overall with 92% juniors tested
- Fall: 11% overall with 84% seniors tested



Insights into Missouri's Student Testing Behaviors: Timing, Participation, and Improvement

Preference for Junior Year Testing in ACT State & District Testing

National Tests Favored in Senior Year

Significant Retesting Behavior: Most in their senior year

Seasonal Testing Strategies in Spring vs. Fall State & District Testing

Room for increased participation in ACT State & District Testing for a more comprehensive view of MO student performance.



Missouri's Section Scores Stable Across All Sections from 2023 to 2024



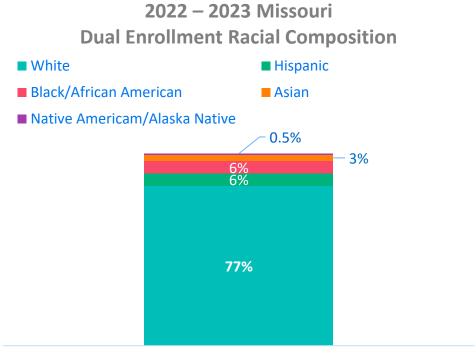


Missouri: Dual Enrollment

IPEDS 12-Month Undergraduate Headcount, 2022 – 2023 AY

2022 – 2023 Missouri Dual Enrollment Stats:

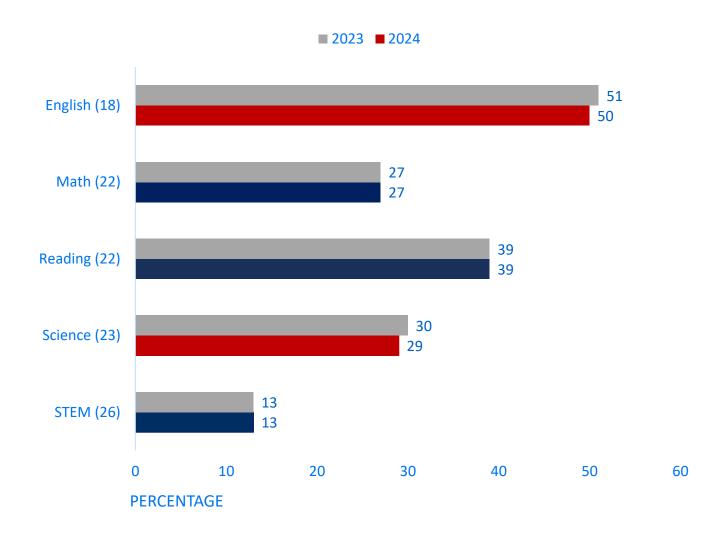
- 56,026 dual enrollment students
- 18,710 (33%) dual enrolled at community colleges.
- 26,306 (47%) dual enrolled at public four-years.



Community Colleges & Public Four-Years



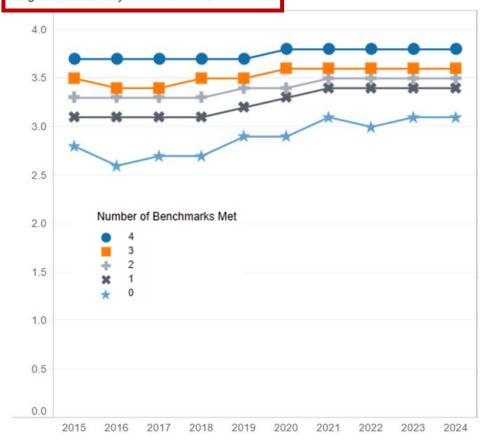
MO College Readiness % are steady





2015 – 2024: Grade Inflation?

Missouri ACT-Tested Graduates - All Students High School GPA by Number of Benchmarks Met



# benchmarks	2015 GPA	2024 GPA
4	3.7	3.8
3	3.5	3.6
2	3.3	3.5
1	3.1	3.4
0	2.8	3.1



ACT WorkReady Why it Matters to Businesses



"Missouri's pioneering spirit is evident in Jasper County, which became the first-ever ACT Work Ready Community more than a decade ago. Since then, the program has been a transformative force, helping countless individuals gain the skills and knowledge needed to succeed in today's workforce. Through the ACT National Career Readiness Certificate and the ACT Work Ready Communities



Subash Alias, CEO Missouri Partnership program, employers can easily match the skills and aptitudes they need with a ready and capable workforce. The program is one of the most innovative and effective ways to support our workforce and strengthen our economy."



Leadership.....

- Convene partnerships
- Deploy poverty reduction

Economic Dev

- Leverage value of workforce
- Promote to job creators



Employers

- Pinpoint skill needs and hire right the first time
- Save time, money, and risk

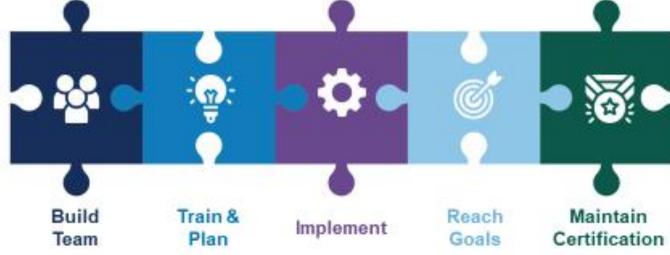
····· Workforce Dev

- Improve placement performance
- Build career pathway options

Educators

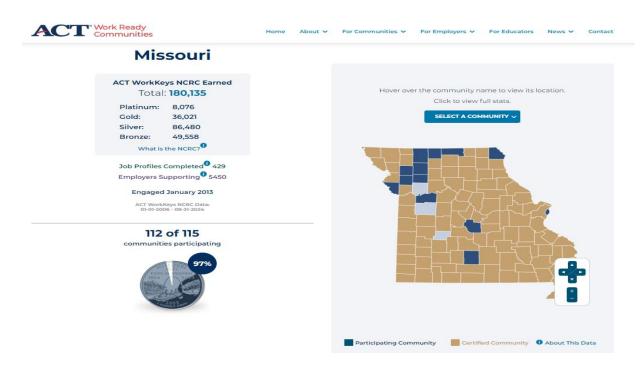
- Measure skill gaps
- Align curriculum to sector needs
- Improve completions







Workforce Synergy: ACT Work Ready Communities



Last 3 counties:

- Hickory
- Johnson
- Ray

Experience: No degree

Degree: No experience

WorkKeys Assessments and the NCRC support and provide a common language for jobseekers, workforce developers, educators, and employers to advance and achieve the workforce priorities of the state, while also providing students multiple pathways to success.



Policies and Practices to Increase Career Readiness

- Value College Readiness and Career Readiness Equally
- Career Awareness Activities Should Begin Earlier in a Student's Education
- Use Career Readiness Benchmarks to Set Goals for Students/Adults and Programs
- Offer Authentic Work-Based Learning Experiences
- Leverage NCRC and Work Ready Communities for Economic & Workforce Development



Schuyler County MO Is Work Ready!



"Tri County Electric is excited to have the opportunity to participate in helping the community earn this designation" – Mike Scheib, CEO of Tri-County Electric

"Nobody is going to give you anything. You're going to have to work for it" – Mike Parson, Missouri's 57th governor
May 2024

"You don't want to hire based on only a gut feeling....
You want to have some sort of data."

The Work Ready Community Initiative empowers counties across the United States to identify skill gaps and quantify the skill level of its workforce. This helps educators build career pathways aligned with the needs of business & Industries!







Industry Readiness Profile for Manufacturing Careers

Median WorkKeys skill levels for entry into these occupations are derived from the ACT WorkKeys Profile Database which includes over 22,000 job analyses for O*NET occupation titles. Additional data can be found at: http://jobprofiles.act.org/

	1184,000,00	WorkKe	ys Median Ski	Median	Projected	
Growth	Occupation	Applied Math	Workplace Documents	Graphic Literacy	Annual Vage 2019	Job Openings 2019-2029
	Software Developers	4	5	5	\$107,510	131,400
	Software Quality Assurance Analysts and Testers	4	5	5	\$107,510	131,400
	Industrial Machinery Mechanics	4	4	4	\$53,590	40,500
	Industrial Engineers	5	6	6	\$88,020	21,300
Fastest Growing	Human Factors Engineers and Ergonomists	5	6	6	\$88,020	21,300
	Validation Engineers	6	6	6	\$88,020	21,300
	Manufacturing Engineers	6	6	6	\$88,020	21,300
	Dental Laboratory Technicians	3	4	4	\$41,340	4,600
	Ophthalmic Laboratory Technicians	3	3	3	\$32,620	3,700
	Computer Numerically Controlled Tool Programmers	4	4	4	\$56,450	3,100
	Medical Appliance Technicians	3	4	4	\$40,690	1,900
	Orthotists and Prosthetists	3	4	4	\$68,410	900
	HelpersProduction Workers	3	3	3	\$29,100	44,100
	Bakers	3	3	4	\$27,700	26,000
	Electrical Engineers	7	6	6	\$98,530	12,500
	Aircraft Mechanics and Service Technicians	4	5	5	\$64,090	11,200



Occupational Profiles by Industry Sector

- Accommodation and Food Services
- Administrative Support
- Agriculture
- Arts and Entertainment
- Construction
- Education
- <u>Finance</u>
- Government
- Health Care
- Information Systems
- Management

- Manufacturing
- Mining
- Professional Services
- Real Estate
- Retail
- Transportation and Warehousing
- <u>Utilities</u>
- Waste Management
- Wholesale Trade
- Other Service



ACT National Career Readiness (NCRC) Credential Outcomes for Employers

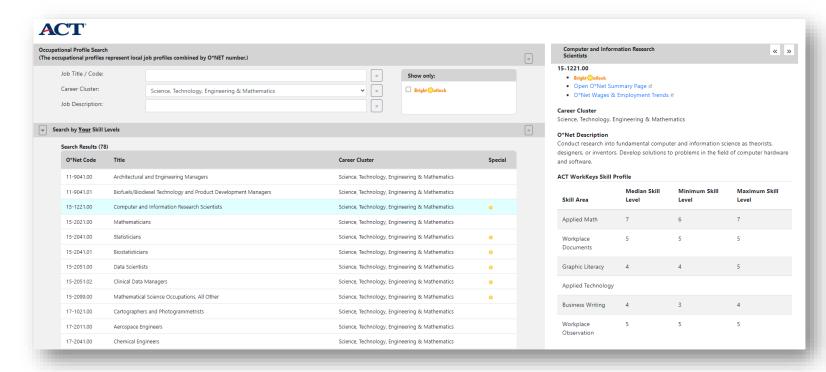
- Positive relationship between ACT WorkKeys scores and overall job performance
- Negative relationship between ACT WorkKeys scores and number of disciplinary actions

- 28,318

 Employers recognize the ACT® WorkKeys® NCRC®

 View employer directory
- 23.2% increase in employee productivity in task performance
- 22.1% increase in output due to increased employee safety
- 18.9% reduction in hiring needs due to increased performance
- 19.3% reduction in hiring needs due to increased employee safety
- 25–75% reduction in turnover
- 50–70% reduction in time-to-hire
- 70% reduction in cost-to-hire
- 50% reduction in training time







More Than A Score: Use the Occupational
Profile Search to Explore Careers and
Review the ACT WorkKeys Profiles for the
Careers

Tasks:

Analyze problems to develop solutions involving computer hardware and software.

Apply theoretical expertise and innovation to create or apply new technology, such as adapting principles for applying computers to new uses.

Assign or schedule tasks to meet work priorities and goals.

Meet with managers, vendors, and others to solicit cooperation and resolve problems.

Design computers and the software that runs them.

Conduct logical analyses of business, scientific, engineering, and other technical problems, formulating mathematical models of problems for solution by computers.

Evaluate project plans and proposals to assess feasibility issues.

Participate in multidisciplinary projects in areas such as virtual reality, human-computer interaction, or robotics.

Consult with users, management, vendors, and technicians to determine computing needs and system requirements.

Develop and interpret organizational goals, policies, and procedures.

Develop performance standards, and evaluate work in light of established standards.

Maintain network hardware and software, direct network security measures, and monitor networks to ensure availability to system users.

Direct daily operations of departments, coordinating project activities with other departments.

Participate in staffing decisions and direct training of subordinates.

Approve, prepare, monitor, and adjust operational budgets



Activity: Comparing Careers and WorkKeys Skill Levels

JOB PROFILES SEARCH SUMMARY								
	Job 1		Job	2	Job 3			
Occupation Title	Computer Use	er Support Specialist						
O*NET-SOC Code	15-1151.00							
Median Income \$\$\$	edian Income \$\$\$ \$50,210							
Job Growth + or - %	+10% 1	to 14%						
WorkKeys [®] Skill Infor- mation	Median Work- Keys Skill Level	My WorkKeys Skill Level	Median WorkKeys Skill Level	My WorkKeys Skill Level	Median Work- Keys Skill Level	My WorkKeys Skill Level		
Applied Math		4						
Workplace Documents	4	3						
Graphic Literacy	4	6						

WorkKeys - Using the Occupational Profile Database



Labor Market Trends

Supply

- Aging population and slow growth
- Decreased labor force participation (especially for the low-skilled population)
- Increased diversity (birth rate and immigration)

Demand

- Increased automation
- Alternative staffing arrangements



How Has Policy Reacted?

College readiness for all

Enrollment has increased but completion has not

High quality CTE

- Perkins V
- Industry recognized credentials (WIOA)

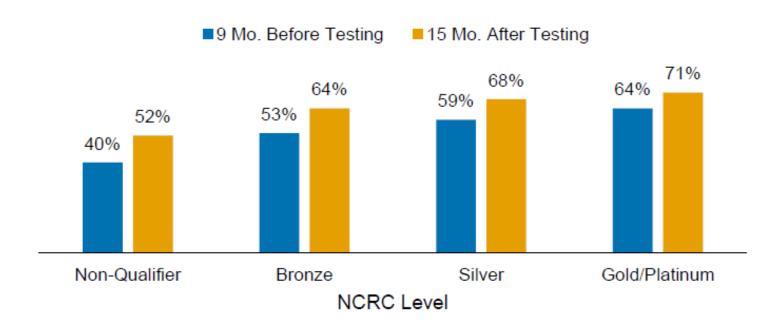
Local industry skills alignment

A few national models, most are homegrown



Missouri Employment Outcomes

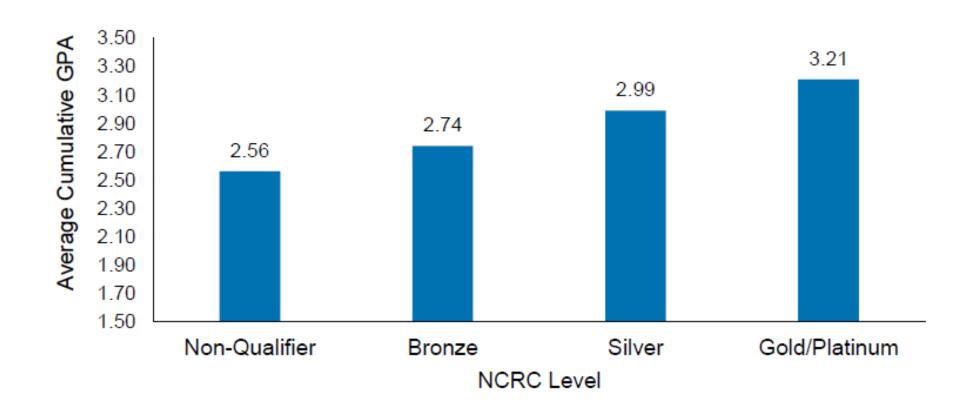
Figure 1. Percentage with Wage Records in the Unemployment Insurance Database





Missouri Postsecondary Education Outcomes

Figure 4. Average Postsecondary Cumulative Grade Point Average





Missouri NCRC Levels: Career Readiness and College Credit Opportunities

Likely ACT National Career Readiness Certificate (NCRC) Level Based Upon ACT Composite Score



Foundational Skills for **20**% for **71**% needed of jobs of jobs

65% qualify for NCRC college credit

Missouri Southern State University and Metropolitan Community College award credit.

American Council on Education (ACE) Third-Party Quality Review and Credit Recommendations





NCRC Levels: Pathways to Enhanced Job Opportunities

NCRC Certificate level based on WorkKeys lowest score: • Applied Math • Graphic Literacy • Workplace Documents	Score level 3	Score level 4 ACT SILVER WorkKeys NCRC	Score level 5 ACT GOLD Workkeys NCRC	Score level 6/7 ACT PLATINUM WorkKeys NCRC
Foundational Skills needed ACT JobPro Database	for 20 % of jobs	for 71% of jobs	for 93% of jobs	for 98% of jobs



MSIP 6: Success Ready

- Measures students' readiness for next phase in educational experience
- Outputs & Inputs

Assessment	Student Weight	0	0.25	0.25		0.75		1.0		25				
ACT 1-36	Composite Score DESE uses Superscores!	No record of participation	<17		18-2		18-21		22-2		22-25		26-	36
Assessment	Student Weight	0	0.25	C).75		1.0	1	.25					
ACT WorkKeys	NCRC (3 Tests) • Applied Math • Graphic Literacy • Workplace Documents	No record of participation	3		4		5	6	5-7					



The ACT and ACT WorkKeys (NCRC Assessments): MSIP6 Reporting: Success Ready Assessment Scores Matrix





Partner with ACT to Ensure Missouri Students are the best success story yet

https://site.act.org/missouri-workkeys



WorkKeys Valued Added Benefits and Implementation Best Practice Strategies

- WorkKeys assessments/NCRC provide students with a nationally recognized credential and digital badge of work readiness that they can add to their career portfolio (ICAP) and use to successfully transition to employment assisting colleges with that performance measure that can be linked with funding.
- With the NCRC, community colleges and universities can award **Credit for Prior Learning** which can assist in the transition to education/training programs as a part of dual enrollment and career navigation programs leading to **increased enrollments**.
- Aligning high school and college career/technical programs
 with occupational profile data serves to provide benchmarks for
 academic program quality and plans for continuous improvement
 based on industry standards set by employers and subject matter
 experts.

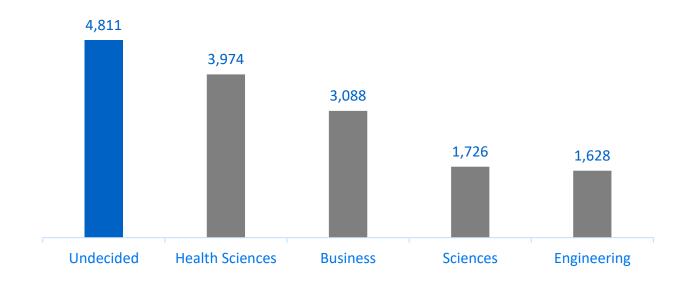
- Employer based advisory committees strongly support this model as it provides data-based evidence that students are work ready based on employer input which strengthens the partnership between employers and the high school/college.
- Implementing the WorkKeys system, including the assessments, NCRC, and curriculum can strengthen and improve the pass rates for program specific capstone assessments leading to Industry Recognized Credentials and having a positive impact on individual program accreditation.
- College Accreditation Review Teams have cited the implementation of WorkKeys as a **measure of assessing and enhancing general education outcomes** as a best practice in college institutional assessment plan reviews.



Pathways to Purpose: Cultivating the Education & STEM Pipelines

Responses: 23,887

Top 5 Major Aspirations



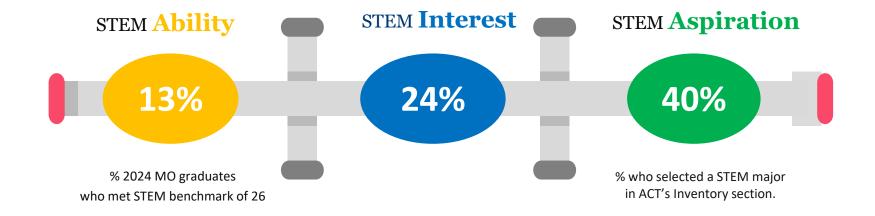
Key Takeaway:



Avg Composite Score for **Undecided**. Potential for the STEM & Education pipelines.



Optimizing the STEM Pipeline: Bridging Ability to Aspiration

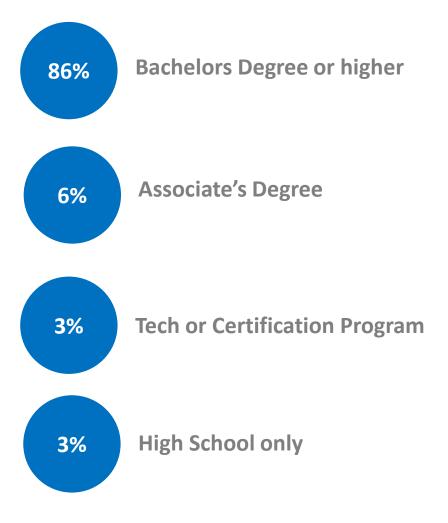


Key Takeaway: 27% gap between STEM ability and aspiration.



Missouri Class of 2024's Educational Aspirations

Responses: 21,084



Key Takeaways:

- **1. Career Exploration:** Encourage students to explore various career options **early**, especially since most are aiming for higher education.
- 2. Support for Alternative Pathways: Although a smaller percentage of students are interested in Associate's degrees and certification programs, career counseling should include information on technical schools, community colleges, and certification programs that align with labor market demands.



ACT Research & Data Tools



ACT: Research Driven!



Featured

Aug 30, 2023

Evidence of Grade Inflation Since 2010 in High School English, Mathematics, Social Studies, and Science Courses

This study reveals evidence of grade inflation in English, mathematics, social studies, and science.

Expert: Edgar I Sanchez Size: 2.2MB | Pages: 65



School-Day Administration of the ACT Test: Removing Barriers and Opening Doors for All Students

This brief describes six evidencebacked benefits of school-day ACT testing.

Expert: Jeff Allen, Ty Cruce, Colin

Dingler

Size: 297.9KB | Pages: 9

Student Success Plans Supported by ACT Research



Krista D. Mattern, PhD, and Ty M. Cruce, PhD

ACT Research | Data Byte | October 2021

Previous research has linked higher levels of academic preparation as measured by the ACT's to postsecondary success, such as earning higher college grades and completing a college degree in a timely manner.' This ACT Data Byte extends these findings, illustrating the positive relationship between graduating from high school college and career ready and future annual earnings. Data from a collaboration between ACT and Opportunity insights—a non-profit organization located at Harvard University—show that the annual earnings individuals' report during their late 20s are positively related to their academic achievement level measured during high school.²

Figure 1. Mean Annual Earnings (in 2016 dollars) at Age 28 by ACT Composite Score Range



Alotes Based on over 9.1 million ACT-tested individuals who were born between 1979 and 1987. Mean annual samings are calculated using all ACT-tested individuals, including those individuals (9K) who reported no positive income at the age of 28. The positive relationship between ACT Composite score range and mean annual earnings remains when the sample is limited to only those individuals who reported positive income at the age of 28.

ACT Research | Data Byte | October 2021

Figure 1 provides the mean annual earnings of ACT-tested individuals at the age of 28 by the range of their ACT Composite score. As seen in the figure, annual earnings increase as test scores increase. Compared with the average annual earnings of individuals who scored between 1 and 12 on the ACT, individuals who scored between 13 and 12 on the ACT, individuals who scored between 35 and 36 had mean earnings that were more than 2.5 times higher. The findings underscore the importance of students acquiring the foundational knowledge and skills taught during primary and secondary schooling for future education and workplace success.

Notes

- Refer to the ACT Technical Manual for complete information on the validity of ACT scores for predicting postsecondary outcomes; ACT. (2020). The ACT technical manual. Iowa City, IA: ACT.
- 2. These statistics were calculated as part of the collaboration between Opportunity Insights and ACT on the project Income Segregation and Intergenerational Mobility Across Colleges in the United States. Annual earnings at age 28 are the individual's total pre-law earnings in 2016 Gollars. For a single filer, individual earnings are defined as the sum of the individual's W-2 wage earnings and net self-employment income, if positive (i.e., net of one-half of the self-employment tax). For a joint filer, individual earnings are defined as the sum of the individual's W-2 wage earnings, net self-employment income. If positive, and half of the additional wage earnings relative to the sum of their spouse's W-2 wage earnings reported on the individual's W-2 forms.

Take Away:
Students must acquire
foundational knowledge and
skills taught in K-12 for future
education and workplace
success!

www.act.org

Search: ACT Research Publications



Six Things You Should Know About ACT Score Gains from Retesting

Brief findings: 2023 ACT-tested graduating cohort – 35% tested once, 20.6% twice, 8.3% three, 3.6% four, 2.7% five or more

- Avg score gains are modest (about 1 score point)
- Score gains increase with more time between tests
- · Higher achieving students tend to have larger score gains
- Differences in score games across demographic groups are small, but consistent with long-standing achievement gaps
- ACT scores tend to increase with additional retesting, but there are diminishing returns
- ACT Superscore gains are substantially larger than ACT Composite score gains

Table 1. Number of Times Tested, by Student Demographic Characteristics

Demographic	Number of Times Tested (%)								
Characteristic	1	2	3	4	5+				
Family Income									
<\$36,000	67	22	7	3	2				
\$36,000-\$60,000	62	23	9	4	3				
\$60,000-\$100,000	57	24	10	5	4				
>\$100,000	47	27	14	6	5				
Missing	75	16	5	2	2				
Race/ethnicity									
African American	64	22	8	4	3				
Native American	71	18	6	2	2				
White	58	23	10	5	3				
Hispanic	76	16	5	2	1				
Asian	57	23	11	5	4				
Native Hawaiian/OPI	81	13	4	1	1				
Two or more races	67	20	8	3	2				
Prefer not to respond	62	21	9	4	3				
Missing	91	8	1	<1	<1				

Table 2. Mean Academic Achievement, by Number of Times Tested

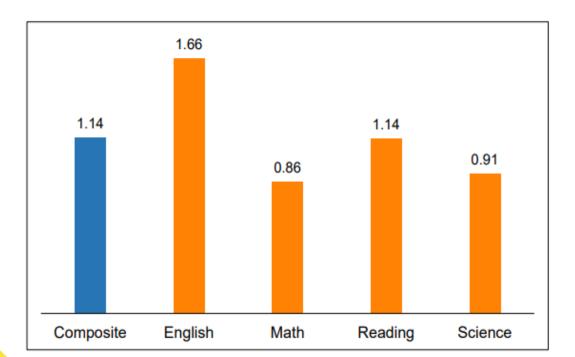
Number of Times Tested									
1	2	3	4	5+					
18.4	20.9	21.9	21.6	21.1					
1.2	1.9	2.2	2.1	2.0					
3.29	3.51	3.62	3.67	3.71					
	1.2	1 2 18.4 20.9 1.2 1.9	1 2 3 18.4 20.9 21.9 1.2 1.9 2.2	1 2 3 4 18.4 20.9 21.9 21.6 1.2 1.9 2.2 2.1					



Average score gains are modest; Increase with more time between tests

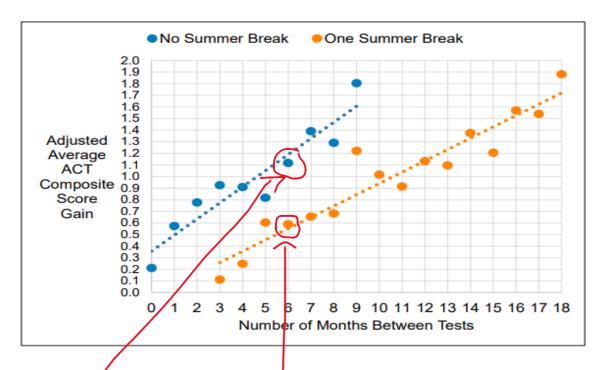
Avg time from first to last test was 8.3 months.

Figure 1. Average Gain From First to Last ACT Test, by Subject



Most common scenarios: March of 11th grade to Oct of 12th grade or March to June.

Figure 2. Adjusted Average Composite Gain From First to Second ACT Test, by Number of Months Between Tests





Differences in score gains across demographic groups are small but consistent with long-standing achievement gaps

Figure 4. Average Composite Gain From First to Last ACT Test, by Family Income Level

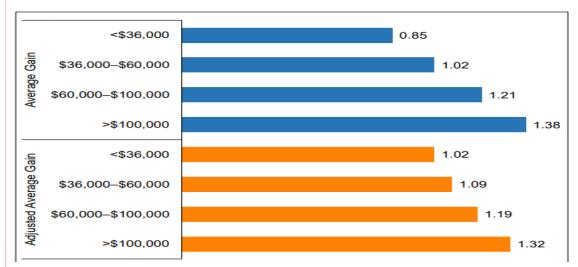
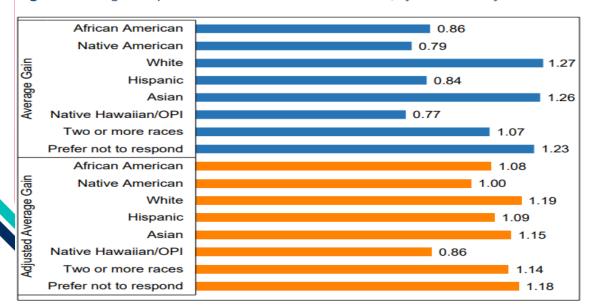


Figure 5. Average Composite Gain From First to Last ACT Test, by Race/Ethnicity



Avg gains are lower for students with family incomes less than 36K.

Adjusted avg gains that would be expected if income groups were equal (as measured by the ACT Rigor Index)

Avg gains varied across racial/ethnic groups.

Adjustments made for differences in HS coursework, grades, time between tests, etc. are smaller, suggests that the unadjusted gains by race are partly explained by differences in income, courses, grades, time between tests, and number of tests.

Student Growth Percentiles (SGP)

- Longitudinal growth model to measure progress
- SGP describe how well students performed relative to their peers

growth_period	Ψ,Υ	subject -T	prior_score	Ψ,	current_score	Ψ,	sgp	growth_level
Spring Grade 10 to Spring Grade 11		Science		16		16	40	2
Spring Grade 10 to Spring Grade 11		Science		16		17	51	3
Spring Grade 10 to Spring Grade 11		Science		16		18	62	3
Spring Grade 10 to Spring Grade 11		Science		16		19	72	3
Spring Grade 10 to Spring Grade 11		Science		16		20	80	4
Spring Grade 10 to Spring Grade 11		Science		16		21	87	4
Spring Grade 10 to Spring Grade 11		Science		16		22	91	4



Progress Towards the NCRC – PreACT Technical Guide

- Comprised of 79,000 scores from 11th & 12th Graders that took the ACT and all three WorkKeys assessments
- 9th-grade PreACT sample: 81,531 students who took PreACT (n = 74,862) or PreACT 8/9 (n = 6,669) in 9th grade and took the ACT test in 11th grade, 24 to 30 months after taking PreACT or PreACT 8/9.
- 10th-grade PreACT sample: 879,588 students who took PreACT in 10th grade and took the ACT test in 11th grade, 12 to 18 months after taking PreACT.

Table 5.1. Composite Score Ranges Corresponding to Predicted NCRC Levels

PreACT Gr	ade ACT NCRC	Interd	ept	Slo	ppe	50% Cut Score		
Level	Level	Beta	SE	Beta	SE	Estimate	Rounded	
	Bronze	-5.769	0.112	0.616	0.008	9.37	9	
9	Silver	-10.307	0.086	0.736	0.006	14.00	14	
	Gold	-12.987	0.092	0.717	0.005	18.10	18	
	Platinum	-15.610	0.128	0.695	0.006	22.45	22	
	Bronze	-6.153	0.032	0.604	0.002	10.19	10	
40	Silver	-11.604	0.027	0.752	0.002	15.43	15	
10	Gold	-15.306	0.034	0.761	0.002	20.12	20	
	Platinum	-18.695	0.054	0.754	0.002	24.80	25	

Table 5.2. Composite Score Ranges Corresponding to Predicted NCRC Levels

Predicted NCRC Level —	PreACT Compos	site Score Range	ACT Composite Score
Predicted NCRC Level —	Grade 9	Grade 10	Range
Below Bronze	1–8	1–9	1–12
Bronze	9–13	10-14	13–16
Silver	14–17	15–19	17–21
Gold	18–21	20-24	22–26
Platinum	22–35	25–35	27–36

Note. For more information on the Progress Toward the ACT National Career Readiness Certificate Indicator, visit www.act.org/NCRC-indicator.



How Standardized Tests Make College Admissions Fairer

Brief findings:

- Standardize tests make the college admissions process fairer for students
- · Setting an objective standard
- Equity ensuring all students can take the ACT
- · Benefits to college and university

Full Brief How Standardized Tests Make College Admissions Fairer

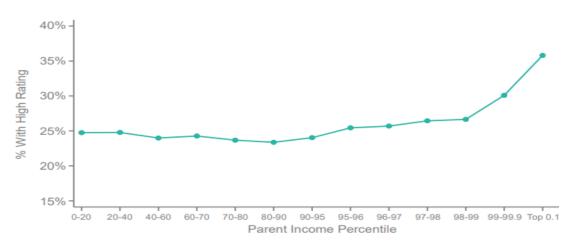


Figure 1. Non-academic metrics used by admissions offices systematically advantage students from families in the top 1% of the income distribution.

Source: Opportunity Insights

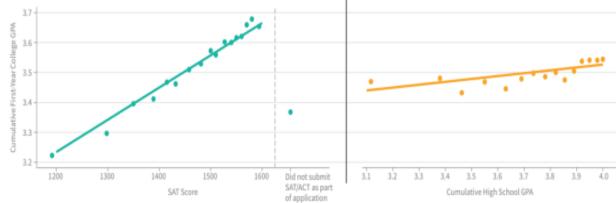


Figure 2. Higher SAT/ACT scores are associated with higher college GPAs but higher high school GPAs are not.

Source: Opportunity Insights



Taking the ACT Online Vs Paper Pencil

Brief findings:

- Research indicates students testing online tend to answer more items correctly compared to paper (particularly in English & Reading)
- Misadministration tends to be limited more by online testing
- Supply chain

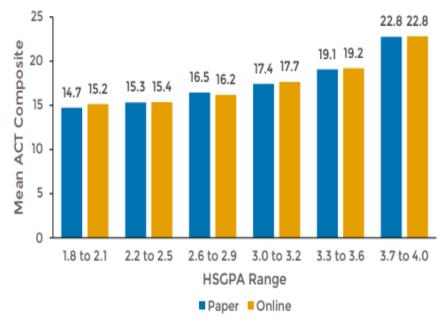
Full Brief ACT Research & Policy Technical Brief Dec 2020

Table 1. Mean 1-36 Scale Scores for ACT Tests Administered on Paper and Online

	Pap (<i>n</i> = 8		Online (n = 8,328)				
Score	Mean	SD	Mean	SD	t	p	d
English	19.2	6.0	19.3	6.0	0.385	.700	0.006
Mathematics	19.7	4.9	19.8	4.9	0.777	.437	0.012
Reading	20.8	6.5	20.8	6.4	0.003	.997	0.000
Science	20.3	5.1	20.3	5.1	0.383	.702	0.006
Composite	20.1	5.1	20.2	5.1	0.463	.643	0.007

Note. t is the *t*-test statistic, *p* is the associated *p*-value, and *d* is the mean difference in standard deviation units (effect size).

Figure 1. Mean ACT Composite Scores by HSGPA Range







These tools can be used to:

- Explore ACT data.
- · Show relationships between education, skills, and occupational wages.
- View National and State data.
- View the data included in the ACT Profile and ACT Condition of College and Career Readiness reports.

Explore ACT Datasets



ACT Research Briefs



Student Perceptions of the Benefits of Taking the ACT in a Test-Optional Environment



Evidence of Grade Inflation Since 2010 in High School Courses



<u>Changes in Predictive Validity of High School GPA and ACT Composite</u>
Score After the COVID-19 Pandemic



Has the Relationship Between College Readiness Measures and Developmental Course Placement Changed in Recent Years?



ACTIVITY # 3 (15 min)

Refer to Activity #3 on the Resources PPT. Explore ACT's various data sets and visualizations. Pick something that interests you; play with the tools, peruse the resources, lets have a conversation about the information.







College Preparedness

Information, resources, & game plans!



Test Score Submission Policies Still Vary Widely

Test Submission Policies	
Required	Applicants must send standardized test scores.
Conditional	Applicants are required to send standardized test scores UNLESS minimal conditions are met, such as GPA or class rank.
Recommended	Applicants are encouraged to send standardized test scores, but they are not required.
Flexible	Applicants do not need to send standardized test scores but must send something else in their place (e.g., send AP results, write an essay, do an interview).
Optional	Applicants may choose to send scores, and scores are considered if sent, but students are not penalized if not sent.
Blind	Scores will not be considered even if sent.



Test Score Are Still Required in Certain Cases

Test-optional schools may require test scores when students:

Apply to certain programs (e.g., Nursing, Engineering, Honors).

Apply for certain scholarships or financial aid.

Have been homeschooled.

Have graduated from a non-accredited high school.



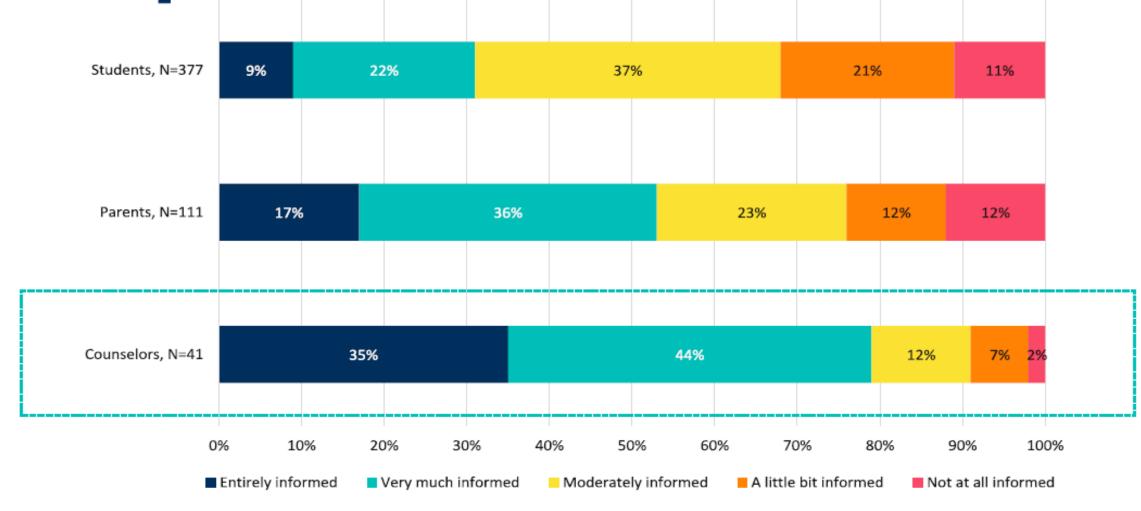
Historical Context

- 1. Before COVID more institutions started becoming *Test Optional*
- 2. States & Districts continued to utilize standardized tests.
- 3. Test optional in *Higher Ed* has meant more applicants but fewer data points to make fair and rigorous decisions.
- 4. Students feel anxiety over *Test Optional*.
- 5. Learners and families left with difficult task of not only understanding testing policies on their own but foreseeing impact on college readiness and academic success.

Survey of Test Optional Perceptions (Perceptions of Test Optional: Students who registered for Feb 2024 National ACT, parents & HS Counselors)



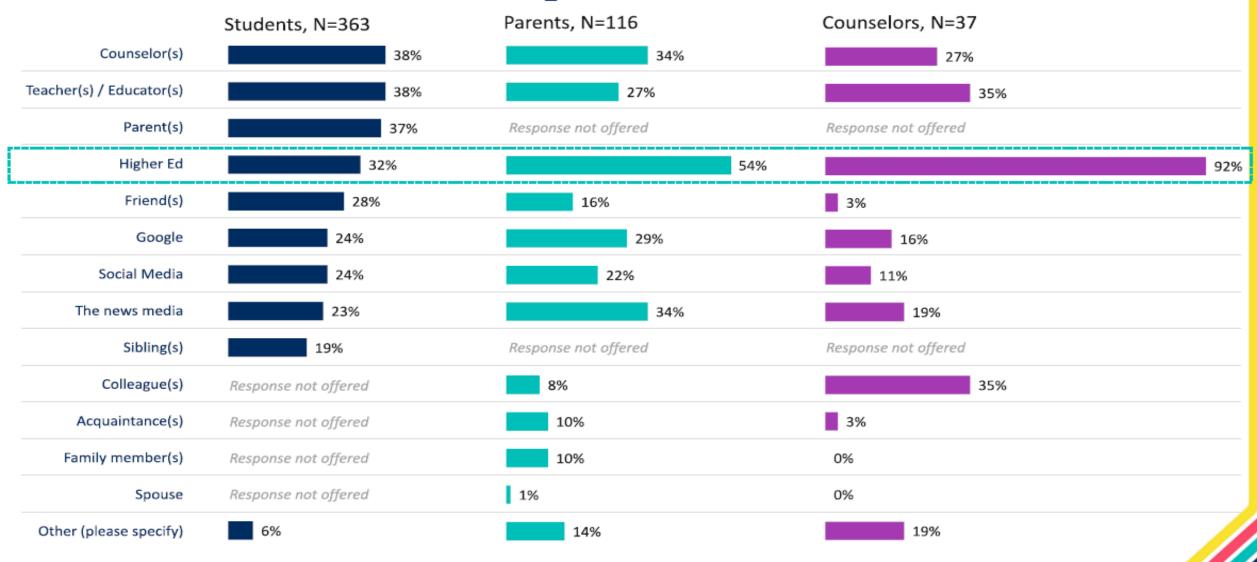
Perceived Level of Knowledge About Test Optional





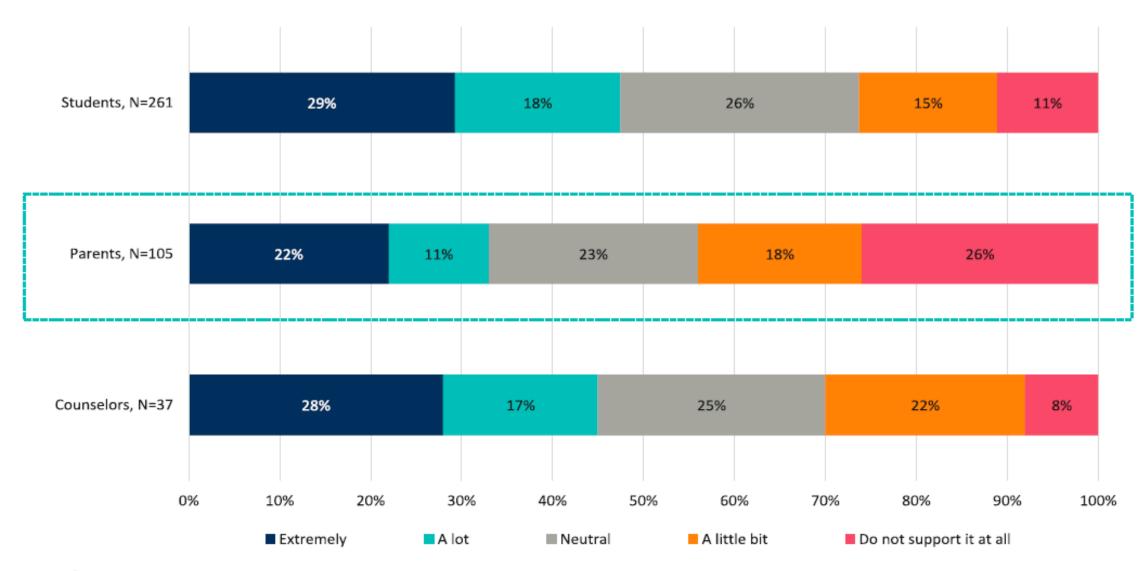
Q: In the last few years, more universities have announced that they have become test optional. How informed do you feel about how test optional works? Note: N counts may vary due to question skipping patterns and participant survey drop out

Sources of Test Optional Information



Q: How did you first learn about test optional? Select all that apply Note: N counts may vary due to question skipping patterns and participant survey drop out

Level of Support for Test Optional





Q: How much would you say you support the use of test optional by some colleges and universities?

Note: N counts may vary due to question skipping patterns and participant survey drop out

What Does the Market Say?

The Atlantic

■ Bloomberg

Stanford Follows Harvard, Yale in Reinstating Standardized Tests

SAT and ACT scores do strongly correlate with parental income levels. But when colleges take tests off the table, the remaining measures used to assess applicants are even MORE biased.

the Southerner

Test-optional policy detrimental to students, colleges must reconsider

Another problem with test-optional policies is that schools are not able to accurately predict a student's academic abilities due to increased grade inflation in high school. Standardized tests work as a baseline to show a fraction of a student's academic capabilities. An MIT study showed that once MIT re-instituted its test requirement, its ability to accurately predict the success of future MIT students increased; it reduced barriers to college readiness and helped identify students who attended high schools with less challenging coursework, who still were academically inclined.





People have in their head things like 1500, 1600 SAT scores. And so a student that doesn't have that level and maybe has like a 1200 SAT may say, you know what, I'm not going to submit that information to the university.

But then when we go in and contextually evaluate that student, and we see that they're in the 99th percentile of their high school with that score, that's a very meaningful figure.

The Atlantic

The Worst Way to Do College Admissions

Making standardized-test scores optional has <u>harmed the disadvantaged</u> applicants it was intended to help.

The Washington Times

America's Newspaper

Standardized tests find new favor with admissions officers, despite critics

Sources: Bloomberg, 2024; The Atlantic, 2024; The Washington Times, 2024; The Southerner, 2024; PBS News Hour, 2024

GPA and Retention

- 1. Data sourced from UM System
- 2. May be difficult to shift away from requiring assessments
- 3. "Enrollment Cliff"
- 4. Students aren't eligible for top scholarships
- 5. Test optional = lower GPA & Retention Rates
- 6. Data sourced from UM system

Admission to S&T, Cont'd

Cohort Success Rate - FTC US Admits

Fall Term Cohort	1st Year Retention 2		2 nd Year	3 rd Year Retention			
	Regular	Test Optional	Regular	Test Optional	Regular	Test Optional	
2021	87%	79%	79%	68%	76%	61%	
2022	86%	85%	79%	77%		77	
2023	88%	80%					



OPE

OPEN - ASARED - INFO - 1-17

December 3, 2024

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UM System Curators / UM System Curato

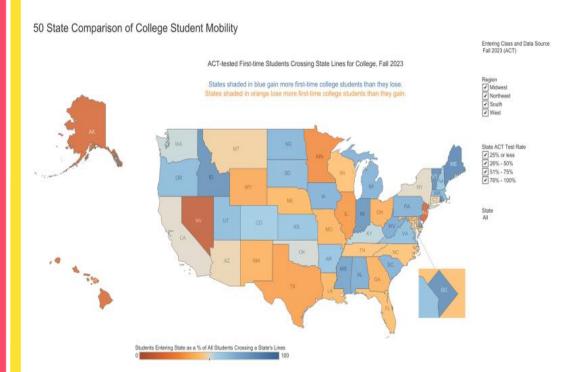
Student Success is Comparable Cohort 1 Cohort 2 Cohort 3 **FS21 FS22 FS23** 92% Regular - 1st yr retention Test Optional - 1st yr retention 90% 3.36 3.35 Regular- 1st yr GPA 3.30 Test Optional - 1st yr GPA 3.15 3.10 3.10 December 3, 2024 University of Missouri

UM System Curators / UM System Curators

Each of the three cohorts of University of Missouri-Columbia students admitted under the test-optional policy has had a lower GPA and retention rate than students who took standardized tests.

Missouri University of Science and Technology

Missouri: 25% of ACT-Tested First Time Students Exiting MO for College



Missouri: ACT-tested First-time Students, Fall 2023

Students entering the state for college: **4,815**Students exiting the state for college: **7,298**

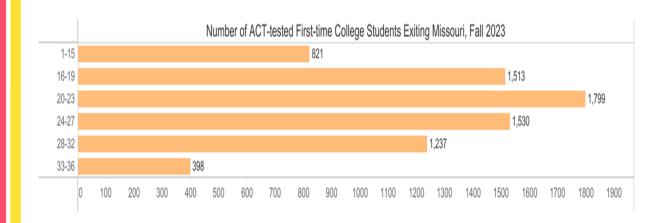
Net number of students crossing state lines for college: -2,483

Students entering state as a % of all students crossing state lines for college: 40%

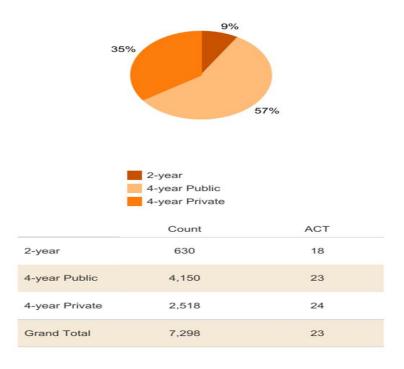
Percent ACT-tested in the state: 66%



Characteristics of Exiting MO Students



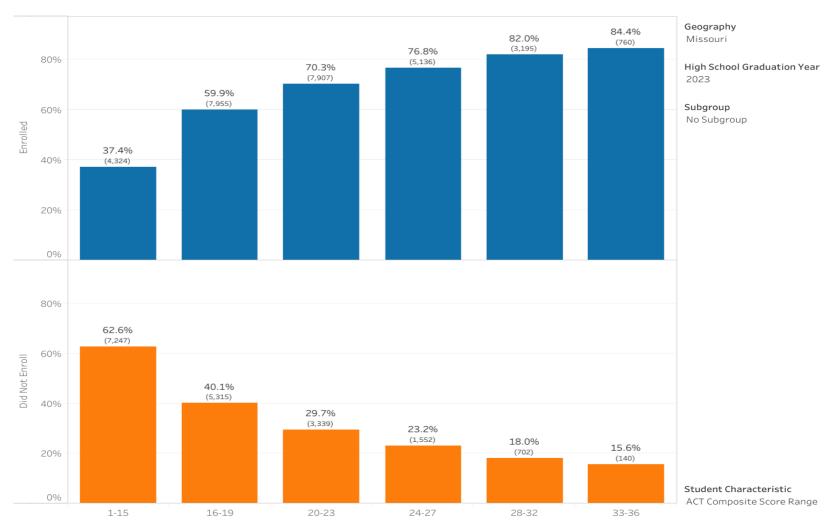
ACT-tested First-time Students Exiting Missouri by College Type Attended, Fall 2023





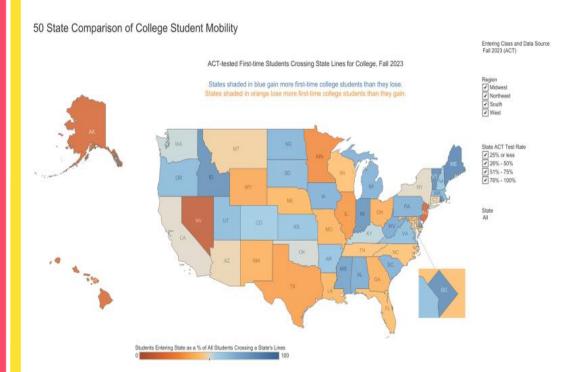
College Enrollment

How many students enroll in college directly after high school?





Missouri: 25% of ACT-Tested First Time Students Exiting MO for College



Missouri: ACT-tested First-time Students, Fall 2023

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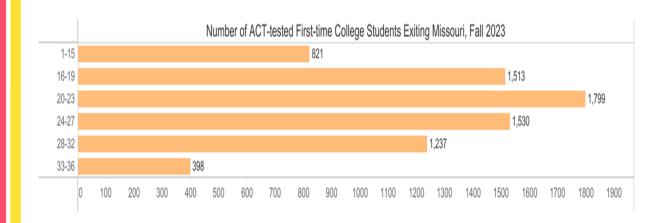
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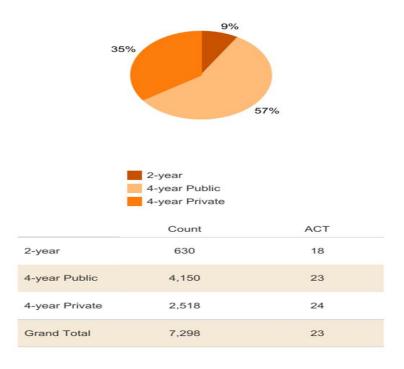
Percent ACT-tested in the state: 66%



Characteristics of Exiting MO Students



ACT-tested First-time Students Exiting Missouri by College Type Attended, Fall 2023





ACT PROFILE REPORT - State: SECTION IV, CAREER AND EDUCATIONAL ASPIRATIONS
Graduating Class 2024
Public High School Students
Total Students in Report: 41,579

Table 4.3. Students' Score Report Preferences at Time of Testing

		Number of Students 2nd-6th				Percent of Students in College Readiness Standards Ranges					
Name	State	Total	1st Choice	Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
UNIV OF MISSOURI-COLUMBIA	MO	4,142	1,975	2,167	1	6	21	30	23	16	3
MISSOURI STATE UNIVERSITY	MO	3,181	1,288	1,893	1	8	27	32	20	10	1
UNIV OF MISSOURI-KANSAS CITY	MO	1,178	407	771	2	8	24	28	23	13	2
UNIV OF CENTRAL MISSOURI	MO	1,167	418	749	1	12	30	30	18	7	1
MISSOURI UNIV OF SCI AND TECH	MO	1,030	463	567	0	2	9	21	32	28	8
SOUTHEAST MISSOURI ST UNIV	МО	1,000	365	635	2	13	34	27	17	7	1
NORTHWEST MO STATE UNIV	MO	941	355	586	1	11	32	34	15	6	0
STATE TECH COLLEGE MISSOURI	MO	614	407	207	4	27	36	22	9	2	0
TRUMAN STATE UNIV	MO	610	199	411	1	6	16	28	28	17	3
WASHINGTON UNIVERSITY	MO	595	180	415	1	3	11	19	21	30	14
UNIVERSITY OF KANSAS	KS	590	153	437	0	5	17	34	27	14	2
OZARKS TECHNICAL CC	MO	552	241	311	4	20	38	25	9	4	0
UNIV OF ARKANSAS-FAYETTEVILLE	AR	542	201	341	0	4	25	33	26	9	3
LINDENWOOD UNIVERSITY	MO	537	158	379	1	11	25	31	20	11	1
MISSOURI SOUTHERN ST U	MO	526	188	338	2	13	36	29	13	7	1
METRO CC KANSAS CITY	MO	506	263	243	4	19	37	26	10	3	0
KANSAS STATE UNIVERSITY	KS	453	117	336	1	4	23	30	25	15	2
SAINT LOUIS UNIVERSITY	MO	448	96	352	1	7	17	25	25	20	4
UNIV OF MISSOURI-ST LOUIS	MO	446	71	375	1	9	24	27	25	10	4
DRURY UNIV	MO	434	106	328	1	8	25	32	20	11	2
COLLEGE OF THE OZARKS	MO	403	201	202	1	12	32	31	19	6	1
MISSOURI WESTERN STATE U	MO	388	128	260	3	19	34	27	13	3	1
STATE FAIR COMM COLL	MO	375	193	182	4	26	37	22	11	1	0
MARYVILLE UNIV OF ST LOUIS	MO	373	112	261	2	11	23	29	23	11	2
MINERAL AREA COLLEGE	MO	334	198	136	2	24	39	22	9	4	0
CROWDER COLLEGE	MO	322	184	138	3	22	41	23	9	2	0
COLUMBIA COLLEGE	MO	254	86	168	5	13	36	26	15	6	1
ST CHARLES COMMUNITY COLLEGE	MO	241	129	112	4	14	30	27	17	7	1
JEFFERSON COLLEGE	MO	234	130	104	4	21	37	25	9	4	0
MOBERLY AREA COMMUNITY COLLEGE	МО	231	106	125	6	22	37	20	12	3	0
All Other Institutions		12,445	3,704	8,741	2	11	24	26	18	15	5
Total		35,092	12,822	22,270	2	10	25	27	19	13	3

SCENARIOS & SHARE OUTS!

Scenario #1

Maria is a high school senior, preparing to graduate and go to college. Her counselor, Mr. Sims is meeting with her to discuss options.

Her school uses data points about students' academic strengths, interests, and career aspirations. Maria has shared that she likes math and science and has taken the PreACT and ACT 2x (national).

What ACT resources/assessment data can Mr. Sims include and reference in his advisement session?

Scenario #2

Thomas is beginning his senior year and weighing his options between pursuing postsecondary education and entering the workforce directly after graduation.

His school has administered both the ACT and PreACT assessments to gather data on academic readiness and potential career pathways.

The school's career counselor, Ms. Ramirez, uses this assessment data to counsel Thomas regarding his post-high school options. What other resources/recommendation might be useful for this session?



Creating a College and Career Readiness Plan



THINGS TO DO BEFORE HIGH SCHOOL GRADUATION

01

USE CAREER
READINESS
RESOURCES
PROVIDED BY YOUR
SCHOOL AND/OR
COUNSELOR

02

PARTICIPATE IN WORK
AND/OR WORKBASED LEARNING: JOB
SHADOWING,
INTERNSHIPS, AND
APPRENTICESHIPS

03

BUILD SKILLS OUTSIDE THE CLASSROOM: LEADERSHIP, COMMUNICATION, CREATIVITY, COLLABORATION





Access Pre-recorded webinar and tool kit at:

https://site.act.org/act-ccrday-2025-webinar



COLLEGE AND CAREER READINESS CHECKLIST



ACT

READINESS CHECKLIST

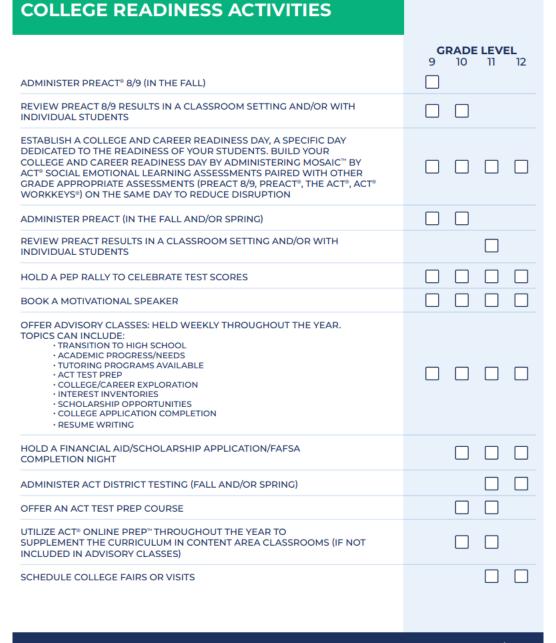
ACT provides holistic tools and services designed to help you make a difference in your students' college and career readiness. Consider using this checklist when creating activities for your high school college and career readiness plan.

CAREER READINESS ACTIVITIES

			GRADE LEVEL			
	9	10	11	12		
REVISE AND/OR COMPLETE CAREER AND ACADEMIC PLAN						
HOLD A CAREER DAY						
UTILIZE THE ACT® NON-TEST INFORMATION AND PREACT® ASSESSMENTS INTEREST INVENTORY INCLUDED IN ADVISORY CLASSES THROUGHOUT THE YEAR TO COUNSEL STUDENTS						
ADMINISTER ACT® WORKKEYS® CURRICULUM AND ASSESSMENTS						
OFFER THE ACT® WORKKEYS® NATIONAL CAREER READINESS CERTIFICATE® (NCRC®)						
ADD THE NCRC EARLY INDICATOR LEVEL FROM PREACT 8/9 AND PREACT TO THE CAREER AND ACADEMIC PLAN						
REVIEW WORKPLACE SKILLS WITH WORKKEYS NCRC PRACTICE TESTS						
SET UP JOB SHADOWING AND APPRENTICESHIP OPPORTUNITIES						



COLLEGE AND CAREER READINESS CHECKLIST





FOR A COMPLETE EDUCATOR'S GUIDE TO COLLEGE AND CAREER READINESS VISIT ACT.ORG/K12

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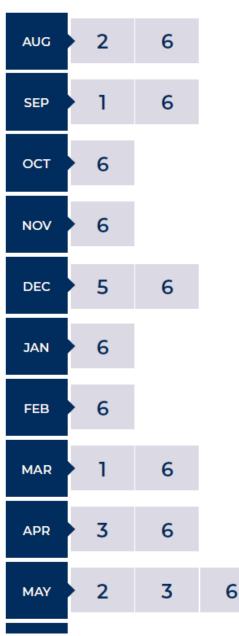
ASSESSMENT AWARENESS



Grade 9

- ACTIVITY 1 Administer a college and career readiness assessment (grade level appropriate) to establish a baseline for all students.
- ACTIVITY 2 Review assessment results (incoming 9th graders who tested in March of the previous year) in a classroom setting and/or with individual students.
- ACTIVITY 3 Consider establishing a College and Career Readiness Day, a specific day dedicated to the readiness of your students. Build your College and Career Readiness Day by pairing your college entrance exam with other assessments on the same day to reduce disruption.
- · ACTIVITY 4 Pep Rally to celebrate test scores
- · ACTIVITY 5 Motivational Speaker
- ACTIVITY 6 Advisory Class—held weekly throughout the year. Some topics to include:
 - · high school academic progress/needs
 - · tutoring programs available
 - · transition to high school
 - · non-test info from college readiness assessment
 - introduction of professionals in the most popular career areas, based on student interests from the non-test portion of college readiness assessment

Activities Calendar



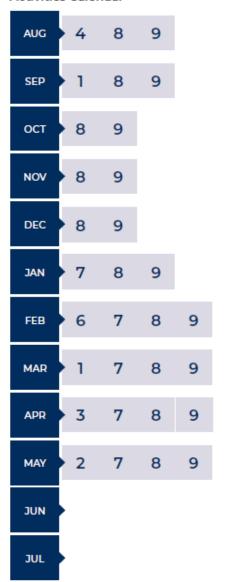
A TEMPLATE FOR A COLLEGE AND CAREER READINESS PLAN FOR HIGH SCHOOL



COLLEGE READINESS Grade 10

- ACTIVITY 1 Administer a college and career readiness assessment (grade level appropriate) to establish a baseline for all students.
- · ACTIVITY 2 Pep rally to celebrate test scores
- ACTIVITY 3 Consider establishing a College and Career Readiness Day, a specific day dedicated to the readiness of your students. Build your College and Career Readiness Day by pairing your college entrance exam with other assessments on the same day to reduce disruption.
- ACTIVITY 4 Review of assessment results (incoming 10th graders who tested in the previous year) in a classroom setting and/or with individual students.
- · ACTIVITY 5 Motivational speaker
- ACTIVITY 6 Financial Aid/Scholarship Application Night introduction for sophomores
- ACTIVITY 7 Test prep course offering available in the spring of 10th grade
- ACTIVITY 8 Advisory Class—held weekly through the year. Some topics to include:
 - · interest inventories
 - · high school academic progress/needs
 - · test readiness activities
- ACTIVITY 9 Utilize test prep throughout the year in content area classrooms as supplemental curriculum (if not including in Advisory).

Activities Calendar



A TEMPLATE FOR A COLLEGE AND CAREER READINESS PLAN FOR HIGH SCHOOL



WorkKeys Supports Career and Academic Planning

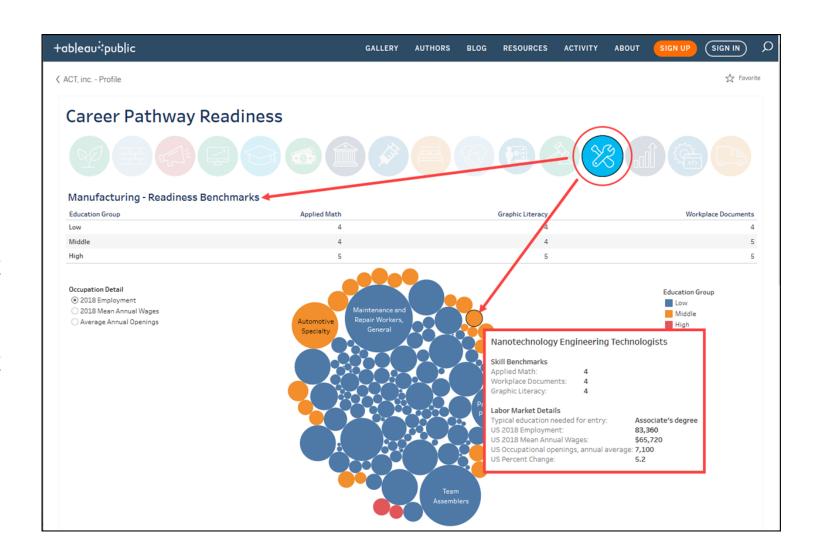
WorkKeys/NCRC Skill Profiles as Benchmarks for Career and Academic Planning:

Career Readiness

https://public.tableau.com/app/profile/act2044/ viz/CareerReadinessBenchmarks/CareerReadine ss?publish=yes

Industry Readiness

https://public.tableau.com/app/profile/act2044/ viz/IndustryReadinessBenchmarksDashboard/IndustryReadinessDashboard





OTHER CAREER NAVIGATION RESOURCES



O*NET: https://www.mynextmove.org/



U.S. Bureau of Labor Statistics Occupational Outlook: https://www.bls.gov/ooh/





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Additional Resources – District Testing

- ACT Now District Testing Steps and support info.
- ACT Now District Testing Technical Readiness
- Preparing for the ACT

Additional Resources – PreACT 8/9, PreACT, & PreACT Secure

- PreACT Online
- PreACT Secure



• Instructions for Completing Answer Document

Additional Resources WorkKeys

- Missouri WorkKeys
- ACT NCRC Webpage
- ACT WorkReady Communities
- ACT WorkKeys Sample Questions (includes sample questions and practice test)



Additional Resources – Professional Learning

- ACT Professional Learning Page
- Professional Learning Catalog

Additional Resources – ACT Social Emotional Learning (SEL)

- SEL Landing Page
- SEL Assessments

