
New Mexico Legislative Education Study Committee

2016 New Mexico ACT Graduating Class Report December 15, 2016

Presenter:

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ACT Senior State Lead – New Mexico

ACT Mission: Helping people achieve education and workplace success

- **Elementary–High School** educational assessment
- **Postsecondary Education** awareness, engagement, placement, and enrollment assessment
- **Workforce Development** assessments and solutions

ACT is the nation's leader in college and career readiness, providing research-based solutions grounded in more than 50 years of experience.

ACT's Partnership in New Mexico

Since 1962, New Mexico has been a partner

- **New Mexico ACT State Council and Organization (16 members)**

New Mexico Legislative Education Study Committee

New Mexico Public Education Department

New Mexico Higher Education Department

New Mexico Department of Workforce Solutions

Gear Up New Mexico

K – 12 Districts/Schools

Postsecondary institutions

Business and Industry



ACT Benchmarks and Standards—

Data Driven

ACT[®] You. Empowered.



ACT Benchmarks and Standards—Data Driven

- **ACT National Curriculum Survey[®]** drives the test content
- **ACT College Readiness Benchmarks**—scores associated with postsecondary success in credit-bearing courses
- **ACT College and Career Readiness Standards**—empirically based on an analysis of the skills and knowledge students need to respond successfully to an assessment question

ACT National Curriculum Survey

Driving test content

- Determines what skills and knowledge postsecondary institutions expect
- Measures college-ready skills
- Collects information from diverse education audiences across the nation
- Provides consultation with content area experts



ACT College Readiness Benchmarks

- Based on ACT analysis of actual student performance in college
- The minimum ACT test scores required for students to have a high probability of success in corresponding first-year credit-bearing college courses
 - 50% chance of earning a B or better
 - 75% chance or better of earning a C or better

The ACT College Readiness Benchmarks

College Course	ACT Subject-Area Test	ACT Benchmark
English Composition	English	18
College Algebra	Mathematics	22
Social Sciences	Reading	22
Biology	Science	23

ACT College and Career Readiness Standards

- Direct link between what students have learned and what they are ready to learn next
- Help interpret what the scores earned on the ACT mean
- Identify the knowledge and skills students are likely to demonstrate at various score levels on each academic test
- Linked to college instruction



ACT College and Career Readiness Standards

Topics in the flow to...	Score Range 13–15	Score Range 16–19	Score Range	Score Range	Score Range 28–32	Score Range 33–36
Number and Quantity (N)	<p>N 201. Perform one-operation computation with whole numbers and decimals</p> <p>N 202. Recognize equivalent fractions and fractions in lowest terms</p> <p>N 203. Locate positive rational numbers (expressed as whole numbers, fractions, decimals, and mixed numbers) on the number line</p> <p>« View changes »</p>	<p>N 301. Recognize one-digit factors of a number</p> <p>N 302. Identify a digit's place value</p> <p>N 303. Locate rational numbers on the number line</p> <p><i>Note: A matrix as a representation of data is treated here as a basic table.</i></p> <p>« View changes »</p>	<p>Score Range 16–19</p>		<p>601. Apply number properties involving prime factorization</p> <p>602. Apply number properties involving even/odd numbers and factors/multiples</p> <p>603. Apply number properties involving positive/negative numbers</p> <p>604. Apply the facts that π is irrational and that the square root of an integer is rational only if that integer is a perfect square</p> <p>605. Apply properties of rational exponents</p> <p>606. Multiply two complex numbers</p> <p>607. Use relations involving addition, subtraction, and scalar multiplication of vectors and of matrices</p> <p>« View changes »</p>	<p>N 701. Analyze and draw conclusions based on number concepts</p> <p>N 702. Apply properties of rational numbers and the rational number system</p> <p>N 703. Apply properties of real numbers and the real number system, including properties of irrational numbers</p> <p>N 704. Apply properties of complex numbers and the complex number system</p> <p>N 705. Multiply matrices</p> <p>N 706. Apply properties of matrices and properties of matrices as a number system</p> <p>« View changes »</p>
			<p>N 301. Recognize one-digit factors of a number</p> <p>N 302. Identify a digit's place value</p> <p>N 303. Locate rational numbers on the number line</p> <p><i>Note: A matrix as a representation of data is treated here as a basic table.</i></p> <p>« View changes »</p>			

ACT College and Career Readiness Standards— Ideas for Progress

Score Range 16–19

Number and Quantity

- apply elementary number concepts, including identifying patterns pictorially and numerically (e.g., triangular numbers, arithmetic and geometric sequences), ordering integers, and identifying factors of whole numbers
- recognize, identify, and apply basic properties of real numbers (e.g., commutative, associative, identities)
- describe the distance between zero and a point on the number line
- measure and describe, with appropriate units, the distance between two points
- arrange data into meaningful arrays
- identify the dimensions of a matrix



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How prepared are students?

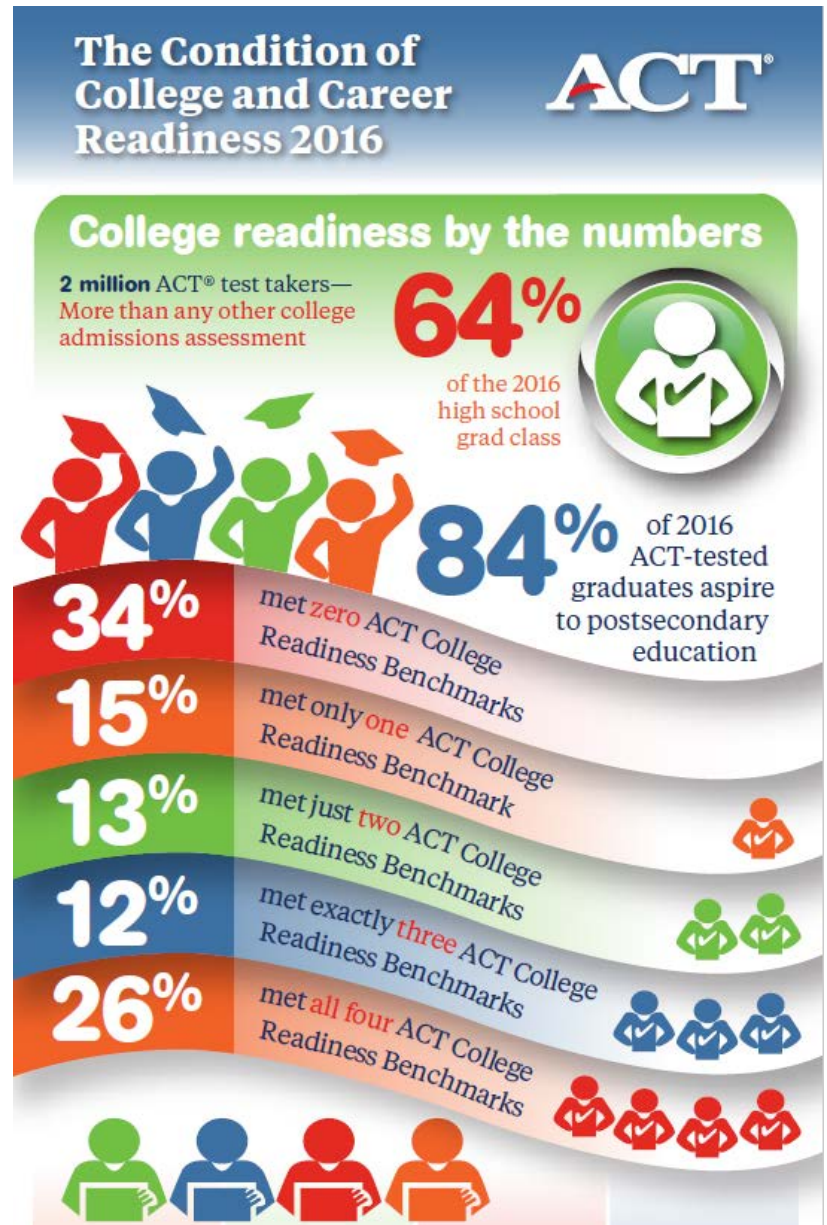
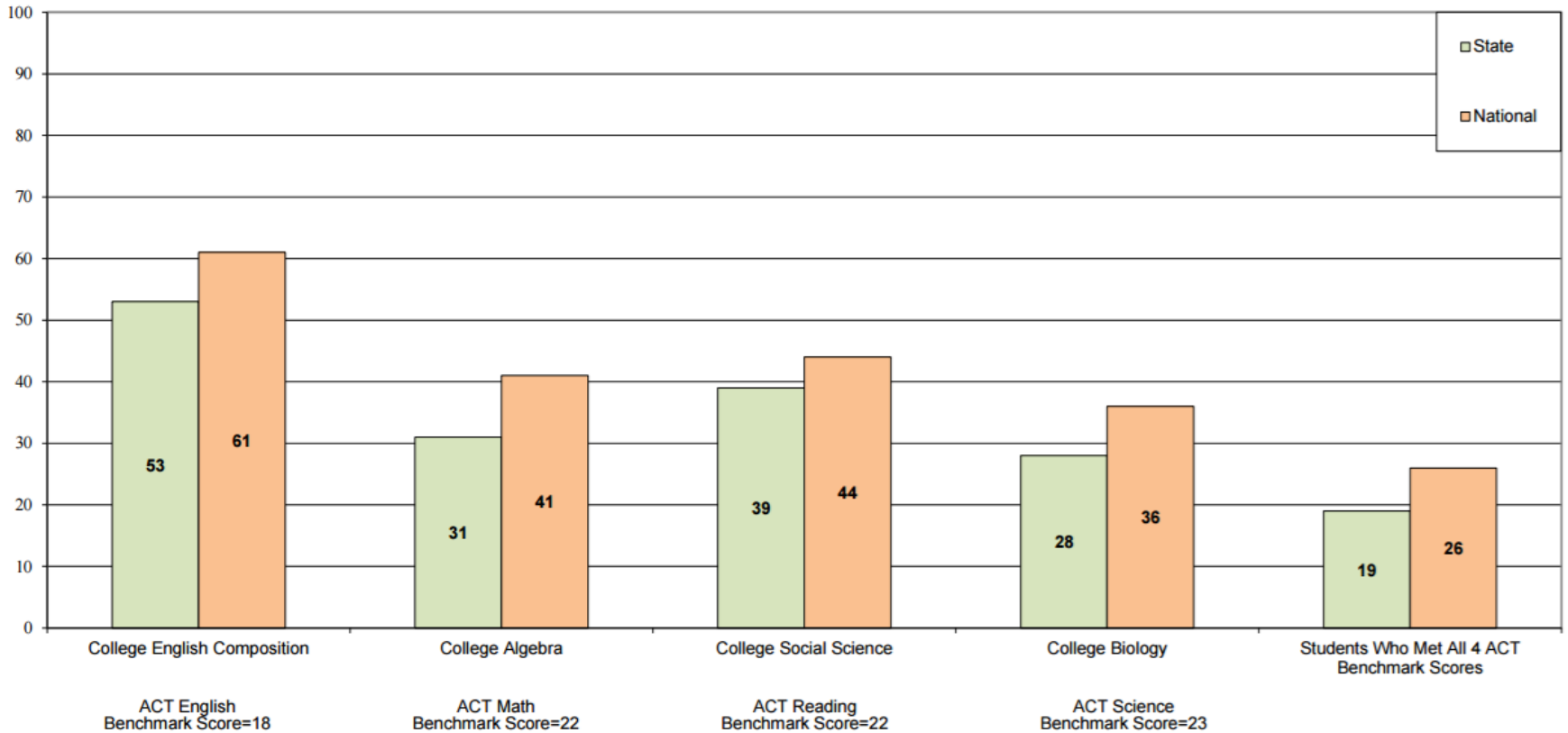


Figure 1.1. Percent of Your Students Ready for College-Level Coursework



A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

Total Students in Report: 13,435

Table 1.1. Five Year Trends—Percent of Students Who Met College Readiness Benchmarks

Year	Number of Students Tested		Percent Who Met Benchmarks									
			English		Mathematics		Reading		Science		Met All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2012	13,792	1,666,017	57	67	33	46	45	52	22	31	17	25
2013	13,423	1,799,243	56	64	33	44	38	44	29	36	19	26
2014	12,945	1,845,787	55	64	33	43	37	44	29	37	18	26
2015	13,393	1,924,436	55	64	33	42	40	46	30	38	20	28
2016	13,435	2,090,342	53	61	31	41	39	44	28	36	19	26

Table 1.2. Five Year Trends—Average ACT Scores

Year	Number of Students Tested		Average ACT Scores									
			English		Mathematics		Reading		Science		Composite	
	State	National	State	National	State	National	State	National	State	National	State	National
2012	13,792	1,666,017	19.0	20.5	19.6	21.1	20.3	21.3	20.0	20.9	19.9	21.1
2013	13,423	1,799,243	19.0	20.2	19.7	20.9	20.4	21.1	20.1	20.7	19.9	20.9
2014	12,945	1,845,787	18.9	20.3	19.7	20.9	20.5	21.3	20.1	20.8	19.9	21.0
2015	13,393	1,924,436	19.1	20.4	19.8	20.8	20.6	21.4	20.3	20.9	20.1	21.0
2016	13,435	2,090,342	18.9	20.1	19.5	20.6	20.5	21.3	20.1	20.8	19.9	20.8

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2012	1,666,017	20.5	21.1	21.3	20.9	21.1
2013	1,799,243	20.2	20.9	21.1	20.7	20.9
2014	1,845,787	20.3	20.9	21.3	20.8	21.0
2015	1,924,436	20.4	20.8	21.4	20.9	21.0
2016	2,090,342	20.1	20.6	21.3	20.8	20.8

Total Students in Report: 13,435

Table 1.4. Five Year Trends—Average ACT Scores by Level of Preparation

Year	Number of Students Tested		Percent ²		Average ACT Scores									
					English		Mathematics		Reading		Science		Composite	
	Core or More ¹	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2012	10,903	2,746	79	20	19.5	17.0	20.1	18.0	20.7	18.6	20.4	18.5	20.3	18.2
2013	10,742	2,481	80	18	19.4	17.3	20.1	18.3	20.8	18.8	20.5	18.7	20.3	18.4
2014	10,248	2,540	79	20	19.4	17.2	20.1	18.2	20.9	19.1	20.5	18.7	20.4	18.4
2015	10,837	2,421	81	18	19.4	17.5	20.1	18.4	21.0	19.3	20.6	19.0	20.4	18.7
2016	10,945	2,341	81	17	19.2	17.5	19.8	18.3	20.8	19.2	20.4	18.9	20.2	18.6

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity

	2012			2013			2014			2015			2016		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	13,792	100	19.9	13,423	100	19.9	12,945	100	19.9	13,393	100	20.1	13,435	100	19.9
Black/African American	202	1	18.8	187	1	18.7	169	1	18.6	180	1	19.2	183	1	18.8
American Indian/Alaska Native	1,350	10	16.9	1,252	9	16.7	1,146	9	16.7	1,223	9	16.8	1,234	9	16.8
White	3,941	29	22.4	3,756	28	22.5	3,543	27	22.6	3,615	27	22.6	3,441	26	22.6
Hispanic/Latino	6,991	51	18.8	6,903	51	18.9	6,839	53	18.8	7,062	53	19.1	7,289	54	18.8
Asian	223	2	22.2	219	2	22.4	270	2	23.1	280	2	23.0	260	2	23.4
Native Hawaiian/Other Pacific Islander	20	0	18.3	32	0	19.1	17	0	20.8	15	0	18.8	22	0	18.3
Two or more races	402	3	21.7	379	3	21.5	367	3	21.3	355	3	21.5	413	3	21.4
Prefer not to respond/No response	663	5	20.7	695	5	20.9	594	5	21.1	663	5	20.7	593	4	20.4

Total Students in Report: 13,435

Table 1.6. Five Year Trends—Achievement in STEM¹

Year	All Tested Students						Students Meeting STEM Benchmarks			
	Number of Students Tested		Avg. STEM Score		Percent Meeting STEM Benchmark		Avg. Mathematics Score		Avg. Science Score	
	State	National	State	National	State	National	State	National	State	National
2012	13,792	1,666,017	20.1	21.3	12	20	28.3	28.7	27.9	27.9
2013	13,423	1,799,243	20.2	21.1	13	19	28.0	28.7	28.1	28.0
2014	12,945	1,845,787	20.2	21.1	13	20	28.1	28.7	28.2	28.3
2015	13,393	1,924,436	20.3	21.1	13	20	28.1	28.7	28.4	28.4
2016	13,435	2,090,342	20.0	20.9	13	20	28.0	28.7	28.5	28.6

¹The STEM score describes students' overall proficiency in mathematics and science.

Total Students in Report: 13,435

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

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges						
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
UNIVERSITY OF NEW MEXICO	New Mexico	5,567	3,054	2,513	2	14	35	28	15	6	1
NEW MEXICO STATE UNIV	New Mexico	3,006	1,252	1,754	2	17	37	27	13	4	0
EASTERN NEW MEXICO UNIVERSITY	New Mexico	1,048	366	682	3	18	38	27	11	3	0
CENTRAL NEW MEXICO COMMUNITY COLLEGE	New Mexico	974	318	656	2	22	38	26	9	3	0
ARIZONA STATE UNIVERSITY	Arizona	729	174	555	1	17	35	27	14	5	1
TEXAS TECH UNIVERSITY	Texas	678	185	493	1	10	25	31	22	9	1
NEW MEXICO TECH	New Mexico	651	231	420	1	5	21	32	25	15	2
FORT LEWIS COLLEGE	Colorado	567	168	399	2	22	35	27	10	3	0
NEW MEXICO STATE UNIV-DONA ANA BRNCH CC	New Mexico	522	116	406	5	35	39	16	4	0	0
NEW MEXICO HIGHLANDS UNIV	New Mexico	434	113	321	4	26	44	19	6	1	0
COLORADO STATE UNIVERSITY	Colorado	423	84	339	0	8	25	30	21	13	2
UNIVERSITY OF ARIZONA	Arizona	417	92	325	2	15	34	27	16	5	0
NORTHERN ARIZONA UNIVERSITY	Arizona	350	84	266	1	14	30	31	17	6	0
WESTERN NEW MEXICO UNIVERSITY	New Mexico	316	88	228	3	31	43	17	6	0	0
ADAMS STATE UNIVERSITY	Colorado	227	56	171	3	19	43	26	8	1	0
UNIV OF TEXAS AT EL PASO	Texas	220	27	193	5	27	39	21	6	3	0
UNIV OF COLORADO-BOULDER	Colorado	202	32	170	0	9	23	34	18	12	3
UNIVERSITY OF COLORADO DENVER	Colorado	202	27	175	1	13	38	24	16	8	0
WEST TEXAS A&M UNIVERSITY	Texas	190	50	140	1	12	32	35	17	3	1
NCAA ELIGIBILITY CENTER	Indiana	188	97	91	1	7	37	28	18	7	2
GRAND CANYON UNIVERSITY	Arizona	183	50	133	2	15	37	27	15	4	0
UNIV OF TEXAS AT AUSTIN	Texas	176	33	143	0	8	20	24	24	22	3
NEW MEXICO STATE UNIVERSITY-CARLSBAD	New Mexico	173	38	135	1	18	32	31	15	3	0
UNIVERSITY OF DENVER	Colorado	170	26	144	1	11	27	25	19	14	3
EASTERN NEW MEXICO U-ROSWELL COMM COLL	New Mexico	169	65	104	4	27	44	19	6	1	0
STANFORD UNIVERSITY	California	152	36	116	0	4	14	23	24	26	9
SAN JUAN COLLEGE	New Mexico	151	66	85	5	36	34	22	1	1	0
UNIVERSITY OF CALIFORNIA-LOS ANGELES	California	131	22	109	2	8	34	29	17	11	1
NEW MEXICO JUNIOR COLLEGE	New Mexico	128	54	74	1	29	51	16	3	0	0
TEXAS A&M UNIVERSITY-MAIN CAMPUS	Texas	118	22	96	1	6	23	21	27	20	2

Additional highlights of the 2016 New Mexico Graduating Class:

- New Mexico Hispanic/Latino graduates outperformed their national counterparts by 0.1 in their ACT Composite average of 18.8 vs 18.7 nationally.
- New Mexico White students outperformed their national counterparts by 0.4 in their ACT Composite average of 22.6 vs 22.2 nationally.
- 10,153 students reported taking four years of English and had an average ACT score of 18.8
- 8,625 students reported taking at least four years of social science and had an average ACT reading score of 21.0.
- In New Mexico, there were 11,116 fee waivers issued and 8,679 of those were used. ACT provides two fee waivers to students who qualify for free and reduced lunch.
- The top five planned educational majors reported by the 2016 New Mexico graduating class were: Health Sciences and Technologies, Engineering, Social Sciences and Law, Business and Arts: Visual and Performing
- 9,006 New Mexico students aspire to earn an associates, bachelor's and/or graduate degree.

Career Readiness Indicator

Table 3.4 – New Mexico ACT Profile Report

Table 3.4. Progress Toward Career Readiness¹

Student Group	Progress Toward NCRC ² Level	N	%	Average Composite
State	Gold	8,498	63	22.6
	Silver	4,086	30	15.6
	Bronze	761	6	12.7
	Needs Improvement	90	1	10.6
National	Gold	1,418,678	68	23.7
	Silver	496,817	24	15.6
	Bronze	142,375	7	12.6
	Needs Improvement	32,472	2	10.4

¹ Progress reflects degree to which students are on track for attaining workplace employability skills critical to job success.

² Additional information on the ACT NCRC (National Career Readiness Certificate) can be found at www.act.org.

Support for English Learners

ACT will begin providing supports on the ACT® test to U.S. students who are English learners starting in the fall of 2017. The goal of the supports is to help ensure that the ACT scores earned by English learners accurately reflect what they have learned in school.

The supports will begin next fall, in the 2017-2018 school year, and will be limited to students in a local school district's English learners (EL) program who meet the current definitions of an English learner under the Every Student Succeeds Act (ESSA). Students must apply for the English learner supports through their high school counselors' office.

The supports for qualified English learners will include the following:

Additional time on the test (not to exceed time-and-a-half)

Use of an approved word-to-word bilingual glossary (containing no word definitions)

Test instructions provided in the student's native language (including Spanish and a limited number of other languages initially)

Testing in a non-distracting environment (i.e., in a separate room)



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Taking PreACT is one of the first actionable steps a student will take to practice for The ACT test.



PreACT Overview

- 10th grade multiple-choice paper assessment
- Districts and schools
- Provides actionable insights for students, parents, and educators
- Shorter in length than the ACT
- Flexible test administration dates
- Rapid reporting means earlier and more effective intervention and planning



PreACT Overview—Reporting

- PreACT scores and predicted ACT score ranges for composite and subject test on ACT 1–36 scale
- PreACT reporting category scores
- Student’s college and career planning results, including their results on Interest-**Career** Fit
- STEM and text complexity scores
- Student level item response and improvement skills



PreACT Key Benefits for Students

- Early practice for taking the ACT test
- Provides PreACT score and predicted ACT score ranges on the ACT 1–36 scale
- Students may opt to share their information with colleges and scholarship agencies
- Results of the ACT Interest Inventory provides students a personalized view of interests with college and career alignment



PreACT Key Benefits for Educators

- Flexible administration (Sept 1–June 1)
- Provides a snapshot of how students are performing across academic standards
- Reporting categories provide insights to inform classroom and educator intervention
- Enables counselors to have college and career planning conversations
- Quick access to individual student data and patterns of performance





ACT Test Prep Options

ACT Test Prep Products and Services

- The best preparation for success on the ACT is for students to work hard and take challenging courses.
- ACT offers free and affordable prep products and services to support students, parents and educators.

Free Test Prep Resources

FREE Resources:

- *Preparing for the ACT Test*
 - 1 full length practice test including writing
 - Also available in Spanish online
- Practice Questions online and Question of the Day
- Tips for Taking the ACT
- Alternate Format Practice Tests
 - (DVD, Braille, Large Type)

New partnership between ACT and Kaplan Prep to provide online, live instructional classes aimed at preparation for the ACT and improvement of academic skills focused on college readiness

- Premium ACT preparation product
 - Includes full access to all aspects of ACT Online Prep®
- Live instructor-lead, interactive classes
 - English, Math, Reading, Science, and noncognitive
 - Live streaming video with in-session chat and polling
- Flexible scheduling
 - Multiple nights and levels of classes
 - Available on any computer/mobile device

Questions

Thank You!

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