

How to use the ACT® College Readiness STANDARDS POSTERS

1

ORDER POSTERS

Order ACT College and Career Readiness Standards posters for both STEM and ELA by visiting www.act.org/aap/resources and clicking on the Order Paper Materials button.

2

COLLECT ACT SCORES

Score reports for the ACT test and PreACT® provide you with data, including scores and readiness ranges, on how each student performs in each subject and domain.

3

CHECK THE BENCHMARKS

Has the student met the benchmarks, which are marked by a purple bar on the score report? On the poster, shaded rows represent the skills needed to meet those benchmarks.

4

REVIEW THE SKILLS

On the poster, find the student's score (as noted on his or her score report) in the far left column. Moving right across the rows, review the skills a student needs to learn to earn a score within that score range.

5

IDENTIFY SKILLS GAPS

Compare the detailed results on the student score report with the skills listed on the poster. Which skill areas need the most focus or improvement?

6

INCREASE STUDENT SCORES

Look at the next score range down on the poster. Which skills should the student learn to reach the next score level and increase his or her score?

7

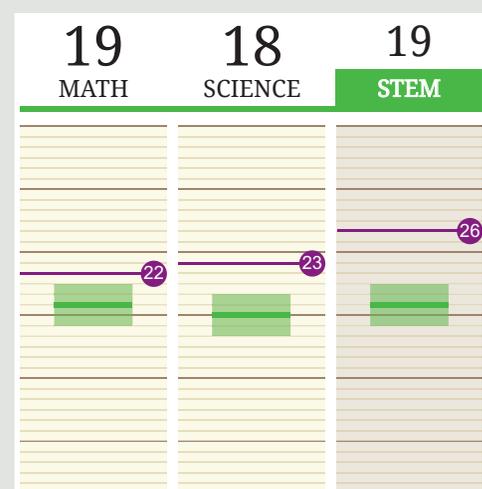
ANALYZE THE CURRICULUM

Using average and classroom data from ACT and PreACT, identify the subjects, domains, and skills students find most challenging. Repeat the steps above and compare to classroom curriculum to identify gaps.

ACT College and Career Readiness Standards: STEM

These standards describe what students who score in specific score ranges on the mathematics and science sections of the ACT college readiness test are likely to know and be able to do.

Score Range	Number and Quantity	Algebra	Geometry	Statistics and Probability
13-15	Perform one-operation computations with whole numbers and decimals.	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).
16-19	Recognize one-digit factors of a number.	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).
20-23	Exhibit knowledge of elementary number concepts such as rounding, the ordering of decimals, prime factorizations, primes, and greatest common factors.	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).
24-27	Order fractions.	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).	Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).



Score Range	Number and Quantity	Algebra
13-15	<ul style="list-style-type: none"> Perform one-operation computations with whole numbers and decimals. Recognize equivalent fractions and fractions in lowest terms. Locate positive rational numbers represented as whole numbers, fractions, decimals, and mixed numbers on the number line. 	<ul style="list-style-type: none"> Solve problems in one or two steps using whole numbers and using decimals. Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$). Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$). Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).
16-19	<ul style="list-style-type: none"> Recognize one-digit factors of a number. Identify a digit's place value. Locate rational numbers on the number line. <p>Note: An example of a representation of data is treated here as a basic table.</p>	<ul style="list-style-type: none"> Solve one-step arithmetic problems using positive rational numbers, and comparing by using a given average value to place or locate rational numbers. Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$). Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$). Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).
20-23	<ul style="list-style-type: none"> Exhibit knowledge of elementary number concepts such as rounding, the ordering of decimals, prime factorizations, primes, and greatest common factors. Write positive powers of 10 by using exponents. Compare the concept of length on the number line, and find the distance between two points. Understand absolute value in terms of distance. Find the distance in the coordinate plane between two points with the same x-coordinate or y-coordinate. Add two real numbers that have whole number entries. 	<ul style="list-style-type: none"> Solve one-step or two-step arithmetic problems involving concepts and comparing by using a given average value to place or locate rational numbers. Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$). Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$). Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).
24-27	<ul style="list-style-type: none"> Order fractions. Find and use the least common multiple. Work with rational factors. Exhibit some knowledge of the complex number system. Add and subtract real numbers that have integer entries. 	<ul style="list-style-type: none"> Solve one-step arithmetic problems that involve planning or converting units. Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$). Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$). Exhibit knowledge of basic expressions (e.g., identify an expression for $3x + 4y + z$).

