



ACT Knowledge and Skills – Quick Start Guide

Please Note: ACT Knowledge and Skills prototype works best in Google Chrome or Safari.

Introduction

ACT Knowledge and Skills is a prototype online tool that can be used to learn more about ACT’s approach to measuring college and career readiness. Interactive maps for each content area provide a grade-by-grade overview of skills and knowledge that research suggests a student should master on the path to college and career readiness. The maps also show a continuum view of the progression of knowledge and skills that ACT assesses across grades 3-12.

The maps use language that reflects state college and career readiness standards (including the Common Core State Standards), as well as ACT’s own empirically derived College and Career Readiness Standards. The prototype ACT Knowledge and Skills tool is designed to help users make connections between ACT’s assessments and other key aspects of the overall assessment system.



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Knowledge & Skills Map

Select grade range

High Moderate Low None

Map: Full 3-5 **6-8** HS

Grade Level Emphasis

	3	4	5	6	7	8	EHS	ACT
Math								
Number and Operations in Base Ten, Number and Operations-Fractions, The Number System, Number and Quantity	High	High	High	Moderate	Moderate	Moderate	Low	Low
Operations and Algebraic Thinking, Expressions and Equations, Ratios and Proportional Relationships, Algebra, Functions	High	High	Moderate	High	High	High	High	High
Geometry	Low	Low	Low	Low	Low	Low	Low	Low
Measurement and Data	Low	Low	Low	Low	Low	Low	Low	Low
Statistics and Probability	Low	Low	Low	Low	Low	Low	Low	Low
Mathematical Practices 1	Low	Low	Low	Low	Low	Low	Low	Low
Justification and Explanation 1	Low	Low	Low	Low	Low	Low	Low	Low
Modeling 1	Low	Low	Low	Low	Low	Low	Low	Low

Math

Number and Operations in Base Ten, Number and Operations-Fractions, The Number System, Number and Quantity

Operations and Algebraic Thinking, Expressions and Equations, Ratios and Proportional Relationships, Algebra, Functions

Geometry

Measurement and Data

Statistics and Probability

Mathematical Practices 1

Justification and Explanation 1

Modeling 1

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Drilling down into each Knowledge and Skills provides additional detail and a sample problem when available

Knowledge & Skills Map

High Moderate Low None

Map: Full 3-5 **6-8** HS

Grade Level Emphasis

	6	7	8
Math			
Math			
The Number System 1	Low	Low	Low
Expressions and Equations 1	High	High	High
Algebraic Expressions: Represent, interpret, and simplify algebraic expressions	High	High	High
Linear Equations and Inequalities: Solve linear equations and inequalities and apply the solutions to real world problems	High	High	High
Systems of Linear Equations: Understand the concept of two simultaneous equations and find solutions in a number of different ways	Low	Low	High
Ratios and Proportional Relationships 1	High	High	Low
Functions 1	Low	Low	High
Geometry 1	Low	Low	Low
Statistics and Probability 1	Low	Low	Low
Mathematical Practices 1	High	High	High
Justification and Explanation 1	High	High	High
Modeling 1	High	High	High

Expressions and Equations

Description

Citations

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Clicking on the ACT Reporting Categories (middle column) will show the connection between ACT Reporting Categories and the Common Core State Standards. Each category has drill down capabilities...mouse over and click to view additional information.

