HOLISTIC FRAMEWORK

CORE ACADEMIC SKILLS

Foundational knowledge everyone needs to know
4 KEYS TO COLLEGE AND CAREER READINESS

Current gauges of college and career readiness tend to focus on academic preparation and achievement, but evidence shows that success in school and the workplace is dependent on multiple aspects in addition to academic ability.

Using ACT research, ACT's Holistic Framework provides four domains (core academic skills, cross-cutting capabilities, behavioral skills, and education and career navigation) that most effectively predict and prepare someone's college and career readiness.

Students and employees can use this framework as a map to track themselves along their journey to becoming college and career ready. Teachers and employers can use this framework to identify times for intervention or manage additional support for their students or employees.
**BENEFICIAL FOR ALL**

*K-12 Educators and Administrators*

These skills provide a necessary foundation for future learning. If students are effectively prepared in the areas of reading, writing, science, and mathematics, they will be ready for more advanced learning in college or specialization and training in employment.

*Postsecondary Professionals*

By evaluating an incoming student's proficiency of the core academic knowledge found in this book, you can accurately predict their performance in your institution. Once in your college or university, the reinforcement of these abilities lead to a more prepared, successful graduate in the workplace.

*Workforce Development Professionals*

The core academic skills an individual hones from elementary through postsecondary education create a foundational knowledge individuals need to be successful in the workplace. You can use the information in this book to gauge how well you or your potential employees grasp these foundational skills.
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WHAT ARE THE CORE ACADEMIC SKILLS?
KNOWLEDGE REQUIRED TO PROGRESS FORWARD

Students need some level of proficiency in these subject areas: English language arts, mathematics, and science, if they are to advance through school and to prepare for their major and/or career.

**English language Arts:** Reading complex text, writing effectively, and speaking and listening skillfully

**Mathematics:** Relating and transforming numeric and symbolic quantities, including applications to data sets, patterns, space, and change

**Science:** Using key scientific ideas and principles to understand and design investigations, to represent and interpret data, and to construct and evaluate models

Each of the three academic subjects can be broken down further into subcategories which provide a broad outline of the knowledge and skills required from kindergarten through career.
English Language Arts

Reading
• Using knowledge, skills, and strategies to comprehend and interpret a range of texts
• Analyzing and making connections across texts

Writing
• Using knowledge, skills, and strategies to plan, draft, and revise texts for a range of purposes
• Applying knowledge of Standard English at the word and sentence level to produce writing

Speaking and Listening
• Using knowledge, skills and strategies to produce and comprehend spoken messages
• Engaging in dialogue and collaborative argumentation
MATHEMATICS
Mathematics

Number and Quantity
• Relationships among number representations, including whole numbers, fractions, decimals, integers, rational and irrational numbers, complex numbers, and quantities represented in vectors and matrices

Operations, Algebra, and Functions
• Processes to perform operations with numbers, simplify expressions, and solve equations, and the relationships among operations, patterns, and functions

Geometry and Measurement
• Properties and measurements of and relationships among two- and three-dimensional shapes

Statistics and Probability
• Processes to calculate and interpret chance, distributions, descriptive statistics, and inferential statistics
SCIENCE
Science

Physical Science
- Understanding and applying concepts in chemistry and physics

Earth and Space Science
- Understanding and applying concepts in the earth sciences, astronomy, and cosmology

Life Science
- Understanding and applying concepts in biology and ecology

Science Practices
- Practices scientists use to investigate, understand, and explain the world

Cross-Cutting Concepts
- Concepts common across all domains of science
- These concepts link the separate fields of science and promote transfer of knowledge
TAKEAWAYS
Applying these skills to college and career readiness

Core academic skills are essential to education and workplace success. Along with cross-cutting capabilities, they compose the cognitive side of the framework. They are foundational to an individual's skillset. Core academic knowledge is needed in order for an individual to progress to advanced levels of learning and development.

The core academic skills have been the focus for many schools and educational systems, and although important, they only provide one view of a student's actual skills and college preparedness.
Tracking & Evaluating Skills

Where do you start? How do you measure and integrate core academic skills into your school or organization?

ACT is dedicated to helping develop and evaluate students and employees using the core academic aspect of the Holistic Framework.

ACT Aspire assesses student's mastery of the core subjects from third through tenth grade, allowing for even earlier monitoring of students strengths and weaknesses to make sure they are on the right track to college readiness.

PreACT™ helps students practice for the ACT test and gives them early indications of progress toward college readiness and ideas for improvement.

The ACT test evaluates a student's college readiness in the subject areas covered in this book. It accurately predicts a student's probability of getting a B or C in a corresponding entry college course.

ACT WorkKeys measure real-world skills that employers believe are critical to job success.

The National Career Readiness Certificate™ (NCRC®) improves career outcomes for everyone and enhances employers' hiring, training, retention and promotion decisions.