



Apprion

Core Skills Mastery (CSM)

CSM addresses academic skills deficits in many contexts

- Secondary schools, colleges, CTE, workforce development (emerging, transitional, incumbent), adult education, corporate training
- Develops vibrant, active, confident learners who can succeed at academics, make decisions and climb career ladders

CSM is a free / low-cost course for skills that matter in school and the workplace

- Instruction for all aspects of high-performance education and work:
 - Fills in gaps, provides immediate boost to adult math & literacy skills
 - Teaches advanced problem-solving and thinking skills to the college level
 - Enhances ability to learn independently
 - Builds self-motivation, persistence, confidence
- Web-based assessment and instruction
 - Students are directed by computer to learn at their own pace
 - Approximately 15-60 hours for Core Instruction (math, literacy, problem-solving)
 - Up to 60 hours of optional Challenge Problems (advanced problem-solving and thinking skills)
- CSM curriculum is fully workforce-contextualized
- CSM is highly scalable, with embedded, continuous instructor preparation and assistance
- Curriculum scope:
 - Adapts to students of many levels, from as low as primary math and middle school literacy to adults with strong preparation who need brush-up and deepening of skills
 - Focuses on depth, intuition and fluency in math and literacy to pre-algebra levels, then climbs to college-level problem-solving and thinking skills
- CSM is free for most non-profit applications (e.g. individuals, schools, colleges, CBO's), including free instructor/technical support and professional development
 - CSM use is low-cost for for-profit users

CSM is a new form of training that addresses the “whole student”

- Balances remediation and advanced material for each student
- Tightly integrates literacy and math instruction
- Monitors learning and attitude issues to drive highly-differentiated instruction aimed at increasing students' persistence, carefulness, confidence, motivation, and learning strategies
- Analyzes and responds to specific student thinking errors
- Keeps students at their zone of proximal development where learning is fastest and most rewarding
- Ensures durable mastery of learned skills
- Builds learning meta-cognition by reporting to students and instructors on the success of individual student's learning strategies (e.g. what they read and when they read it, carefulness, etc.)
- Teaches problem-solving as a separate discipline
- Builds critical thinking using a variety of workplace contexts

CSM embeds instructor assistance that encourages strategic intervention

- Supports intervention based on a holistic view of students (thinking, learning, attitudes)
- Provides individual student narratives that include: observations of the student, interpretations of student thinking, learning, affect/behavior, and suggested interventions
- Emphasizes positive reinforcement (e.g. linking what a student did to the success it engendered)