

Committee for Mathematics Achievement Review of ALEKS by Educational Technology Associates					Comments
<b>Theoretical/ Research Basis</b>	Program based on solid theories of learning <b>and</b> teaching mathematics conceptually.	Program based on solid theories of learning <b>or</b> teaching that focus on mathematics conceptual development.	Program based on theories of learning and teaching that focus primarily on skill mastery.	Program is not based on any theory of learning or teaching.	The program is based on Knowledge Space Theory that analyzes states of knowledge and utilizes theories from artificial intelligence.
<b>Effects on Student Achievement</b>	Randomized trial experimental research indicates program's effect on student achievement.	Quasi-experimental design research indicates program's effect on student achievement	Non-experimental or anecdotal evidence indicates program's effect on student achievement.	No evidence of program's effect on student achievement is available.	The company provided evidence of a quasi-experimental study and anecdotal reports documenting success of the program.
<b>Mathematics Content</b>	Program's mathematics content aligns highly with Core Content 4.1 (90%)	Program's mathematics content aligns moderately with Core Content 4.1 (75%)	Program's mathematics content aligns minimally with Core Content 4.1 (50%)	Program's mathematics content alignment with Core Content 4.1 not evident.	Company provided alignment documents.
<b>Depth of Knowledge</b>	Program focuses on Webb's Depth of Knowledge Levels 1, 2, and 3.	Program focuses on Webb's Depth of Knowledge Levels 1 and 2 only.	Program focuses on Webb's Depth of Knowledge Level 1 only.	Program's focus on Depth of Knowledge is not evident.	There is development of conceptual understanding; however, the software primarily focuses on skill development.
<b>Instructional Strategies</b>	Program employs multiple and appropriate instructional strategies to develop all DOK levels.	Program employs limited but appropriate instructional strategies to develop most DOK levels.	Program employs limited instructional strategies to develop some DOK levels	Instructional strategies employed by the program are not clear.	Software modifies instructional tasks as needed, but tasks focus on DOK levels 1 and 2.
<b>Assessment Strategies</b>	Program utilizes formative and summative assessments focused on all DOK levels.	Program utilizes formative and summative assessments focused on DOK levels 1 & 2.	Program utilizes summative assessments focused on all DOK levels.	Program utilizes summative assessments focused on DOK level 1 and 2.	Program utilizes computer based pre-assessment for placement and reassessment for continuation providing immediate individualized adjustments..
<b>Remediation Strategies</b>	Program provides specific remediation strategies for common misconceptions.	Program provides general remediation strategies for common misconceptions.	Program's remediation strategies focus on specific factual/computation errors.	Program's remediation strategies do not have a focus.	Program includes immediate individualized adjustments by ongoing computer assessments. Program provides suggestions for peer tutoring within the class.
<b>Reporting System</b>	Reporting system includes individual and composite data for teachers, parents and students.	Reporting system includes individual or composite data for teachers, parents and students.	Reporting system includes individual or composite data for teachers.	Program does not include a reporting system.	Learning progress reports and average reports show where students may be having difficulty. Individualized pie charts are available to students to see their progress and goals, while the teacher is provided a list of objectives.
<b>Professional Development</b>	Program offers PD that assists teachers in diagnosis and remediation.	Program offers PD that assists teachers in limited diagnosis or remediation.	Program offers PD that assists teachers in technical aspects of program.	Program does not offer PD for teachers.	ALEKS offers PD in the technical aspects of the program with assistance for teacher understanding of the diagnosis and remediation modules provided in the software.

<b>Teacher Materials/Technology</b>	Teacher materials/technology provide substantial assistance to teachers in diagnosis and remediation.	Teacher materials/technology provide some assistance to teachers in diagnosis and remediation	Teacher materials/technology provides minimal support to teachers.	No materials or technology are available to teachers.	Program includes immediate individualized feedback.
<b>Student Materials/Technology</b>	Student materials/technology are user friendly and developmentally appropriate.	Student materials/technology are user friendly or developmentally appropriate.	Student materials/technology provide minimal support for students.	No materials or technology are available for students.	Program addresses different learning styles through virtual manipulatives, sound, reading assistance in English or Spanish, and a feature allowing students to return to topics for further explanation. Students are not always guided to choose the appropriate developmental level.
<b>Diverse Learners</b>	Program allows students to progress individually at an appropriate pace AND addresses the needs of diverse learners.	Program allows for student to progress individually at an appropriate pace OR addresses the needs of diverse learners.	Program has some individualized components and/or addresses the needs of some diverse learners.	Program is essentially the same for all students.	ALEKS is self-paced, and assessment-based allowing students to work on different topics according to their individual needs and readiness. A Spanish version is available.
<b>Program Purpose and Use</b>	Program serves as a full curriculum for middle and high school courses, but it can be used to supplement existing curricula, especially by parents. Program is fully web-based with online tutors. A teacher is not needed to deliver the program to students.				
<b>Costs</b>	Under 1000 students, \$35 per student per year. 1000+ students, \$25 per student per year. Parents can get purchase at-home service \$19.95 per month.				
<b>Time</b>	Time varies with student.				