

Correlation of ALEKS QuickTables to NCTM Curriculum Focal Points



To create a resource to improve the curriculum, teaching, and assessment in mathematics education, the National Council of Teachers of Mathematics (NCTM) finalized their Standards Project 2000 with the release of the book *Principles and Standards for School Mathematics*. In 2006, the NCTM published the *Curriculum Focal Points for Prekindergarten through Grade 8 Mathematics* to identify the most important mathematical topics for each grade level.

In both the NCTM Focal Points and the Principles and Standards, understanding arithmetic operations and developing quick recall of arithmetic facts are essential building blocks for a strong mathematical foundation. **ALEKS QuickTables provides individualized practice and assessment to help students master the essential NCTM Focal Points and Expectations listed below.**

NCTM's Curriculum Focal Points from Number and Operations	NCTM's Expectations from the Number and Operations Standard
<p>Grade 1: Develop understandings of addition and subtraction and strategies for basic addition facts and related subtraction facts.</p>	<p>Understand meanings of operations and how they relate to one another</p> <p>Pre-K–2 Expectations: In prekindergarten through grade 2 all students should–</p> <ul style="list-style-type: none"> • understand the effects of adding and subtracting whole numbers
<p>Grade 2: Develop quick recall of addition facts and related subtraction facts and fluency with multidigit addition and subtraction.</p>	<p>Grades 3–5 Expectations: In grades 3–5 all students should–</p> <ul style="list-style-type: none"> • understand the effects of multiplying and dividing whole numbers
<p>Grade 3: Develop understandings of multiplication and division and strategies for basic multiplication facts and related division facts.</p>	<p>Compute fluently and make reasonable estimates</p> <p>Pre-K–2 Expectations: In prekindergarten through grade 2 all students should–</p> <ul style="list-style-type: none"> • develop and use strategies for whole-number computations, with a focus on addition and subtraction
<p>Grade 4: Develop quick recall of multiplication facts and related division facts and fluency with whole number multiplication.</p>	<ul style="list-style-type: none"> • develop fluency with basic number combinations for addition and subtraction <p>Grades 3–5 Expectations: In grades 3–5 all students should–</p> <ul style="list-style-type: none"> • develop fluency in adding, subtracting, multiplying, and dividing whole numbers