## Praxis ${ }^{\circledR}$ Elementary Education: Mathematics Subtest (5003) Curriculum Crosswalk

| Page \| 1 | Test Content Categories | Required Course Numbers |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | I. Numbers and Operations (40\%) <br> A. Understands the place value system |  |  |  |  |  |  |  |  |  |  |  |
|  | 1. Writes numbers using base- 10 numerals, number names, and expanded form |  |  |  |  |  |  |  |  |  |  |  |
|  | 2. Composes and decomposes multi-digit numbers |  |  |  |  |  |  |  |  |  |  |  |
|  | 3. Given a digit, identifies the place the digit is in and its value in that place |  |  |  |  |  |  |  |  |  |  |  |
|  | 4. Recognizes that a digit in one place represents ten times what it represents in the place to its right and one-tenth what it represents in the place to its left, and extends this recognition to several places to the right or left |  |  |  |  |  |  |  |  |  |  |  |
|  | 5. Uses whole-number exponents to denote powers of 10 |  |  |  |  |  |  |  |  |  |  |  |
|  | 6. Rounds multi-digit numbers to any place value |  |  |  |  |  |  |  |  |  |  |  |
|  | B. Understands operations and properties of rational numbers |  |  |  |  |  |  |  |  |  |  |  |
|  | 1. Solves multistep mathematical and realworld problems using addition, subtraction, multiplication, and division of rational numbers <br> a) Identifies different problem situations for the operations (e.g., adding to, taking from, putting together, taking apart, and comparing for subtraction) |  |  |  |  |  |  |  |  |  |  |  |

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## Praxis ${ }^{\circledR}$ Elementary Education: Mathematics Subtest (5003) Curriculum Crosswalk

| Page \| 4 | Test Content Categories | Required Course Numbers |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1. Identifies and uses prime and composite numbers |  |  |  |  |  |  |  |  |  |  |  |
|  | 2. Finds factors and multiples of numbers |  |  |  |  |  |  |  |  |  |  |  |
|  | E. Knows a variety of strategies to determine the reasonableness of results |  |  |  |  |  |  |  |  |  |  |  |
|  | 1. Recognizes the reasonableness of results within the context of a given problem |  |  |  |  |  |  |  |  |  |  |  |
|  | 2. Uses mental math, estimation, and rounding strategies to solve problems and determine reasonableness of results |  |  |  |  |  |  |  |  |  |  |  |
|  | II. Algebraic Thinking (30\%) <br> A. Knows how to evaluate and manipulate algebraic expressions, equations, and formulas |  |  |  |  |  |  |  |  |  |  |  |
|  | 1. Differentiates between algebraic expressions and equations |  |  |  |  |  |  |  |  |  |  |  |
|  | 2. Adds and subtracts linear algebraic expressions |  |  |  |  |  |  |  |  |  |  |  |
|  | 3. Uses the distributive property to generate equivalent linear algebraic expressions |  |  |  |  |  |  |  |  |  |  |  |
|  | 4. Evaluates simple algebraic expressions (i.e., one variable, binomial) for given values of variables |  |  |  |  |  |  |  |  |  |  |  |
|  | 5. Uses mathematical terms to identify parts of expressions and describe expressions |  |  |  |  |  |  |  |  |  |  |  |
|  | 6. Translates between verbal statements and algebraic expressions or equations (e.g., the phrase "the number of cookies Joe has is equal to twice the number of cookies Sue has" can be represented by the equation $j=2 s$ ) |  |  |  |  |  |  |  |  |  |  |  |

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## Praxis ${ }^{\circledR}$ Elementary Education: Mathematics Subtest (5003) Curriculum Crosswalk

| Page 18 | Test Content Categories | Required Course Numbers |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | G. Is familiar with how to interpret the probability of events |  |  |  |  |  |  |  |  |  |  |  |
|  | 1. Interprets probabilities relative to likelihood of occurrence |  |  |  |  |  |  |  |  |  |  |  |
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