Ohio Academic Content Standards & Essential Skills Math Software

This document outlines the correlations between the Grade 1 Ohio Academic Content Standards and the Essential Skills math programs. The specific Ohio Academic Content Standards are noted on the left and are matched with the relevant Essential Skills program on the right. Where correlations are not exact, the difference is noted in brackets. Essential Skills programs correlate with 94% of the Grade 1 Ohio Academic Content Standards.

1. Number, Number Sense and Operations	
Ohio Academic Content Standards	**Essential Skills Software CORRELATING PROGRAMS**
1. Use ordinal numbers to order objects; e.g., first, second, third.	**Mastering Numeration 2**
2. Recognize and generate equivalent forms for the same number using physical models, words and number expressions.	**Mastering Numeration 1**
3. Read and write the numerals for numbers to 100.	**Mastering Numeration 1**
4. Count forward to 100, count backwards from 100, and count forward or backward starting at any number between 1 and 100.	**Mastering Numeration 1**
5. Use place value concepts to represent whole numbers using numerals, words, expanded notation and physical models with ones and tens.	**Mastering Numeration 1**
6. Identify and state the value of a penny, nickel, dime, quarter and dollar.	**Measurement 1** **Mastering Numeration 1**
7. Determine the value of a small collection of coins (with a total value up to one dollar) using 1 or 2 different type coins, including pennies, nickels, dimes and quarters.	**Measurement 1** **Mastering Numeration 1**
8. Show different combinations of coins that have the same value.	**Mastering Numeration 1**

1. Number, Number Sense and Operations	
9. Represent commonly used fractions using words and physical models for halves, thirds and fourths, recognizing fractions are represented by equal size parts of a whole and of a set of objects.	**Mastering Numeration 2**
10. Model, represent and explain addition as combining sets (part + part = whole) and counting on.	**Mastering Numeration 1**
11. Model, represent and explain subtraction as take-away and comparison.	**Mastering Numeration 1**
12. Use conventional symbols to represent the operations of addition and subtraction.	**Mastering Numeration 1**
13. Model and represent multiplication as repeated addition and rectangular arrays in contextual situations.	**Mastering Numeration 2**
14. Model and represent division as sharing equally in contextual situations.	**Mastering Numeration 2**
15. Demonstrate that equal means “the same as” using visual representations.	**Mastering Numeration 1**
16. Develop strategies for basic addition facts.	**Mastering Numeration 1**
17. Develop strategies for basic subtraction facts.	**Mastering Numeration 1**

2. Measurement	
Ohio Academic Content Standards	**Essential Skills Software CORRELATING PROGRAMS**
1. Recognize and explain the need for fixed units and tools for measuring length and weight	
2. Tell time to the hour and half hour on digital and analog (dial) timepieces.	**Measurement 1**
3. Order a sequence of events with respect to time	**Measurement 1**
4. Estimate and measure weight using non-standard units	**Measurement 1**
5. Estimate and measure lengths using non-standard and standard units	**Measurement 1**

3. Geometry and Spatial Sense	
Ohio Academic Content Standards	**Essential Skills Software CORRELATING PROGRAMS**
1. Identify, compare and sort two-dimensional shapes.	**Patterning, Geometry & Data Management 1** **Patterning, Geometry & Data Management 2**
2. Create new shapes by combining or cutting apart existing shapes.	**Patterning, Geometry & Data Management 2** **Problem Solving 2-3**
3. Identify the shapes of the faces of three-dimensional objects.	**Patterning, Geometry & Data Management 1** **Patterning, Geometry & Data Management 2**
4. Extend the use of location words to include distance (near, far, close to) and directional words (left, right).	**Patterning, Geometry & Data Management 1**
5. Copy figures and draw simple two-dimensional shapes from memory.	

4. Patterns, Functions and Algebra Strand	
Ohio Academic Content Standards	**Essential Skills Software CORRELATING PROGRAMS**
1. Sort, classify and order objects by two or more attributes, such as color and shape, and explain how objects were sorted.	**Patterning, Geometry & Data Management 2**
2. Extend sequences of sounds, shapes or simple number patterns, and create and record similar patterns.	**Patterning, Geometry & Data Management 2**
3. Describe orally the basic unit or general plan of a repeating or growing pattern.	**Patterning, Geometry & Data Management 2**
4. Solve open sentences by representing an expression in more than one way using the commutative property.	**Patterning, Geometry & Data Management 1** **Patterning, Geometry & Data Management 2**
5. Describe orally and model a problem situation using words, objects or number phrase or sentence.	**Patterning, Geometry & Data Management 1** **Patterning, Geometry & Data Management 2**

5. Data Analysis and Probability	
Ohio Academic Content Standards	**Essential Skills Software CORRELATING PROGRAMS**
1. Identify multiple categories for sorting data.	**Patterning, Geometry & Data Management 1** **Patterning, Geometry & Data Management 2**
2. Collect and organize data into charts using tally marks.	**Patterning, Geometry & Data Management 1**
3. Display data in picture graphs with units of 1 and bar graphs with intervals of 1.	**Patterning, Geometry & Data Management 1**
4. Read and interpret charts, picture graphs and bar graphs as sources of information to identify main ideas, draw conclusions, and make predictions.	**Patterning, Geometry & Data Management 1** **Problem Solving 2-3**