A Correlation of

Scott Foresman · Addison Wesley



to the

INDIANA Academic Standards Mathematics

Grade Five



G/M-267_G5

Introduction

This correlation shows the alignment between **Scott Foresman – Addison Wesley enVisionMATH**, copyright 2011, to Indiana's Academic Standards – Mathematics, Final Draft March 12, 2009. Correlation page references are to the Teacher's Edition. Lessons in the Teacher's Edition include facsimile pages of the Student Edition.

The en**Vision**MATH[™] program is based around scientific research on how children learn mathematics as well as on classroom-based evidence that validates proven reliability.

Personalized Curriculum

en**Vision**MATH[™] provides 20 (16 in Kindergarten) focused topics that are coherent, digestible groups of lessons focusing on one or a few related content areas. A flexible sequence of topics is small enough for a district to rearrange into a personalized curriculum that matches the sequence preferred by the district. The curriculum is designed so that all standards can be taught before the major mathematics testing.

Instructional Design

en**Vision**MATH[™] teaches for deep conceptual understanding using research-based best practices. Essential understandings connected by Big Ideas are explicitly stated in the Teacher's Edition. Daily Spiral Review and the Problem of the Day focus foundational skills and allow for ongoing practice with a variety of problem types. Daily interactive concept development encourages students to interact with teachers and other students to develop conceptual understanding.

Visual Learning allows students to benefit from seeing math ideas portrayed pictorially as well as being able to see connections between ideas. en**Vision**MATH™ created a Visual Learning Bridge which is a step-by-step bridge between the interactive learning activity and the lesson exercises to help students focus on one idea at a time and see the connections within the sequence of ideas. The strong sequential visual/verbal connections deepen conceptual understanding for students of all learning modalities and are particularly effective with English language learners and struggling readers. Guiding questions in blue type help the teacher guide students through the examples, ask probing questions to stimulate higher order thinking, and allow for checking of understanding.

Differentiated Instruction

en**Vision**MATH™ engages and interests all students with leveled activities for ongoing differentiated instruction. A Teacher-Directed Intervention activity at the end of every lesson provides immediate opportunities to get students on track. In addition, ready made leveled learning centers for each lesson allow different students to do the same activity at different levels at the same time giving the teacher uninterrupted time to focus on reteaching students who require intervention. All centers can be used repeatedly due to the inclusion of a "Try Again" at the end. They can also be used for ongoing review and they can be used year after year. Topic-specific considerations for EL, Special Education, At-Risk, and Advanced students enable the teacher to accommodate the diverse learners in the classroom.

Scott Foresman-Addison Wesley enVisionMATH to the Indiana Academic Standards – Mathematics

Grade 5

Indiana Mathematics Standards	Soott Foresman Addison Wesley
indiana mathematics Standards	Scott Foresman – Addison Wesley enVisionMATH
GRADE 5	
Standard	1
Number Sense and Computation	
5.1.1 Count, read, write, compare, and plot on a number line decimals to thousandths using words, models and expanded form.	Topic 1: 4B, 4-5B, 6B, 6-8, 9A-9B
5.1.2 Compare and order fractions and decimals to thousandths by using the symbols for less than (<), equal to (=), and greater than (>).	Topic 9: 12B-13B, 230B-231B
5.1.3 Identify and explain prime and composite numbers.	Topic 4 : 106A-108, 109A-109B
5.1.4 Use words, models, standard form and expanded form to represent place value of decimal numbers to thousandths	Topic 1 : 4B, 4-5B, 10B, 10A-11B
5.1.5 Solve problems involving multiplication and division of whole numbers fluently using a standard algorithmic approach and explain how to treat the remainders in division.	Topic 3: 56A-56F, 58A-59B, 60A-61B, 64A-65B, 68A-69B, 70A-71B Topic 4: 82A-82F, 83, 84A-85B, 90B-91, 94A-95, 97A-97B, 98B-99, 101A-101B Topic 5: 120A-120F, 122B-123B, 128A-129B, 130A-131B, 134A-135B, 136A-137B Topic 9: 223
5.1.6 Solve problems involving addition and subtract	ion of
decimals, including money;	Topic 2 : 42A-43B, 44A-45B, 49
 fractions, including fractions with different denominators; and 	Topic 10: 254A-254F, 256A-257, 259A-259B, 262A-263B, 264A-265B
 mixed numbers using a standard algorithmic approach. 	Topic 5 : 266A-267B, 268A-269B
5.1.7 Solve problems involving the multiplication of fractions using a standard algorithmic approach. Explain the relationship of the product relative to the factors.	Topic 11: 276A-276F, 277, 278B-279B, 280A-281B
5.1.8 Construct and analyze line graphs and double bar graphs from data, including data collected through observations, surveys and experiments.	Topic 18: 428B, 432A-435B, 436-438, 439, 439A-439B, 454A-455B

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5.1.9 Perform simple experiments gathering data from a large number of trials and use data from experiments to predict the chance of future outcomes.	Topic 20 : 484A-484F, 486B, 486-487, 488B, 488-489, 491B, 492A-493B	
Standard	2	
Algebra and Function		
5.2.1 Write and evaluate simple algebraic expressions.	Topic 5 : 144A-144F, 146A-147B, 148A-151B, 152A-153, 155A-155B, 158A-159	
5.2.2 Use two-dimensional coordinate grids to represent points in the first quadrant that fit linear equations and draw the line determined by the points.	Topic 17: 410B, 410E, 420A-421B	
Standard	3	
Geometry and Measurement		
5.3.1 Measure angles and describe angles in degrees.	Topic 8 : 198A, 198C, 204A-205B	
5.3.2 Identify, classify and draw polygons and triangles (equilateral, isosceles, scalene, right, acute and obtuse triangles).	Topic 8: 198B, 198D, 199, 206A-207B, 208A-209B, 210A—211B	
5.3.3 Describe the attributes (such as number of edges, vertices, and number of faces) of solids, including cubes, pyramids and cylinders.	Topic 13: 320B, 320E, 322A-324, 325A-325B	
5.3.4 Identify and describe using words and pictures, transformations such as reflections, rotations and translations and use this knowledge to design and analyze simple tilings and tessellations.	Topic 19: 462A-462F, 464A-465, 467, 467A-467B, 468A-469B, 470A-471B, 472A-473B, 477	
5.3.5 Develop and use the formulas for the perimeter and area of triangles, parallelograms and trapezoids using appropriate units for measures. Find the area of complex shapes by dividing them into basic shapes.	Topic 12: 294B, 294D, 294F, 300A-301, 303A-303B, 304A-305B, 306A-307B, 30A8-309B	
5.3.6 Develop and use the formulas for the surface area and volume of rectangular prisms using appropriate units for measures.	Topic 13: 320B, 320D, 320F, 328A-329B, 332A-334, 335A-335B	

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Process Star	ndards
Problem Solving	
Build new mathematical knowledge through problem solving.	Problem solving is taught throughout the curriculum, especially in the <i>Interactive Learning, Guided Practice</i> and <i>Problem Solving features.</i> The following are some representative examples:
	Topic 1: 4-5, 10B, 10, 12B, 14B, 14-15 Topic 4: 84B, 84, 86B, 86, 88B, 102B Topic 5: 122B, 122, 142B, 124-125, 128B Topic 6: 146B, 146, 148B, 148-149, 152B Topic 9: 220B, 220, 224B, 224, 226B, 246B
	Topic 10: 256B, 256-257, 260B, 260-261 Topic 11: 278B, 278-279, 280B, 280-281 Topic 15: 376B, 376-377, 378B, 378-379 Topic 16: 396B, 396-397, 398-399, 404B Topic 18: 430B, 430-431, 432-433, 450B
Solve problems that arise in mathematics and in other contexts.	This objective is taught throughout the curriculum, especially in the <i>Interactive Learning, Problem Solving</i> and <i>Guided Practice</i> features. The following are some representative examples: Topic 2: 24B, 27, 28B, 31, 33, 34B, 38-39 Topic 3: 58B, 59, 61, 62B, 63, 65, 69, 71 Topic 4: 90B, 92, 96-97, 99, 102B, 106-107 Topic 7: 176B, 177, 179, 182, 184-185, 187 Topic 9: 229, 230B, 231, 233, 235, 238B Topic 10: 266B, 267, 268B, 269, 270-271 Topic 13: 322-324, 327, 329, 331, 340-341 Topic 14: 349, 351, 353, 354, 357, 359, 361 Topic 17: 413, 415-416, 419, 422-423 Topic 20: 487, 490, 492B, 493, 494-495
Apply and adapt a variety of appropriate strategies to solve problems.	Topic 1: 2I-2J, 14A-16, 17A-17B Topic 2: 34A-36, 37A-37B, 46A-48, 49A-49B Topic 3: 74A-76, 77A-77B Topic 4: 86A-88, 89A-89B, 110A-112, 1113A-113B Topic 5: 126A-127B, 138A-139B Topic 6: 162-163B Topic 7: 188A-190, 191A-191B

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continued	Topic 8: 212A-213B
	Topic 9 : 246A-247B
	Topic 10 : 270A-271B
	Topic 11: 288A-289B
	Topic 12: 314A-315B
	Topic 13: 340A-341B
	Topic 14: 366A-367B
	Topic 15: 386A-388, 389A-389B
	Topic 16: 404A-405B
	Topic 17 : 422A-423B
	Topic 18: 454A-455B
	Topic 19 : 478A-479B
	Topic 20 : 494A-495B
Monitor and reflect on the process of	Topic 1 : 13
mathematical problem solving.	Topic 2: 33, 33A-33B, 34A-36, 37, 39
	Topic 3 : 71
	Topic 4 : 88-89
	Topic 9 : 246A-247B
	Topic 10 : 270-271
Reasoning and Proof	
Recognize reasoning and proof as fundamental	Topic 1 : 13
aspects of mathematics.	Topic 2: 33, 33A-33B, 34A-36, 37, 39
	Topic 9 : 246A-247B
	Topic 10 : 270-271
Make and investigate mathematical conjectures.	Topic 6 : 162-163B
	Topic 8 : 212A-213B
 Develop and evaluate mathematical arguments and proofs. 	Topic 6 : 162-163B
 Select and use various types of reasoning and 	Topic 10 : 270A-271B
methods of proof.	Topic 8: 212A-213B
	Topic 17: 422A-423B
Communication	
Organize and consolidate their mathematical	Topic 3: 59, 74-76
thinking through communication.	Topic 4: 110-112
	Topic 6 : 162-163
	Topic 9 : 246-247
Communicate their mathematical thinking	Topic 1 : 13
coherently and clearly to peers, teachers, and	Topic 2: 33, 33A-33B, 34A-36, 37, 39
others.	Topic 9 : 246A-247B
	Topic 10 : 270-271
Analyze and evaluate the mathematical thinking	Topic 2 : 37
and strategies of others.	Topic 3 : 71
	Topic 4: 86A-88, 89A-89B,
Use the language of mathematics to express	In the beginning of each topic, the
mathematical ideas precisely.	curriculum provides <i>Vocabulary Cards,</i>
	Vocabulary Activities, Written and Oral
	Language in Math and Vocabulary. In

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continued	lesson notes in Teacher's Edition, New Vocabulary feature appears in student text and new vocabulary is highlighted. www.pearsonsuccessnet.com supplies an Animated Glossary. The following are some representative examples: Topic 1: 2E-2F, 2-3, 4A-5, 10A-10 Topic 4: 82E-82F, 82-83, 102A-103 Topic 6: 144E-144F, 144-145, 156A-157 Topic 7: 168E-168F, 168-169 Topic 8: 198E-198F, 198-199, 208A-209 Topic 9: 218E-218F, 218-219, 228A-228B Topic 13: 320E-320F, 320-321, 322A-322 Topic 14: 346E-346F, 346-347, 364A-364 Topic 17: 410E-410F, 410-411, 420A-421 Topic 20: 484E-484F, 484-485, 492A-492
Connections	
 Recognize and use connections among mathematical ideas. 	Topic 3 : 72-73
Understand how mathematical ideas interconnect and build on one another to produce a coherent whole.	Topic 3 : 72-73
Recognize and apply mathematics in contexts outside of mathematics.	Topic 2: 35, 40 Topic 3: 71 Topic 6: 151 Topic 9: 246-247
Representation	
Create and use representations to organize, record, and communicate mathematical ideas.	Each lesson contains a Visual Learning Bridge and related <i>Visual Learning Animation</i> on CD or www.pearsonsuccessnet.com. The following are representative examples: Topic 1: 4-5, 6-7, 10-11, 12-13, 14-15 Topic 3: 58-59, 60-61, 62-63, 64-65 Topic 5: 124-125, 126-127, 128-129 Topic 7: 170-171, 172-173, 174-175 Topic 8: 200-201, 204-205, 206-207 Topic 10: 256-257, 260-261, 262-263 Topic 12: 298-299, 300-301, 304-305 Topic 14: 350-351, 352-353, 354-355 Topic 17: 412-413, 414-415, 418-419 Topic 20: 486-487, 488-489, 492-493

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Select, apply, and translate among mathematical representations to solve problems.	Multiple representations are presented in Interactive learning, Visual Learning, Guided Practice and Independent Practice exercises. Additional representations may be found at www.pearsonsuccessnet.com. The following are some representative examples: Topic 2: 24B, 28, 30B, 34A-35, 37A-37B Topic 3: 58B, 60B, 68B, 70B, 72B-73 Topic 6: 146-147, 148-149, 156-157 Topic 7: 178B-179, 180-181, 185 Topic 9: 220B, 224-225, 226-227, 229
	Topic 10: 256B, 256-257, 262-263 Topic 11: 278B, 279, 280B, 280-281, 287 Topic 15: 376-377, 379, 382B, 382-383 Topic 16: 396B, 398B, 398-399, 401 Topic 19: 472-473, 474-475, 478-479
Use representations to model and interpret physical, social, and mathematical phenomena. Estimation and Mental Computation	Each lesson uses Modeling or presents the use of Manipulatives. Differentiated Instruction and Leveled Homework provide additional models or representations. The following are some representative examples: Topic 3: 56A, 58, 60B, 64B, 67B, 68B, 70B Topic 4: 88B, 90B, 93B, 102, 106-107 Topic 8: 200-201, 203B, 205B, 206-207 Topic 10: 254C-254D, 256B, 255B, 268B Topic 11: 278B, 279, 280-281, 283B, 585B Topic 12: 296B, 296-297, 299, 300B, 310B Topic 13: 322-323, 325B, 326B, 328B Topic 16: 396B, 397, 397B, 398B, 400 Topic 17: 412B, 414-415, 417B, 420 Topic 19: 464-465, 468-469, 469B, 472B
Know and apply appropriate methods for estimating the results of computations.	Topic 2: 22B, 30B-31, 33A-33B Topic 3: 62A-63B, 66 Topic 4: 85, 86A-87B, 89 Topic 5: 130-131 Topic 6: 155, 157 Topic 7: 174A-175B, 184A-185B Topic 8: 209 Topic 10: 263, 265 Topic 12: 297, 312

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continued	Topic 14: 352, 353, 357
	Topic 15: 381, 385
	Topic 16: 399
	Topic 18: 431, 451
	Topic 19: 479
Round numbers to a specified place value.	Topic 2 : 28A-29B
Transfer of the opposition process salidar	Topic 3 : 57, 63, 63B
	Topic 4: 87, 87B
	Topic 7 : 174-175
Use estimation to decide whether answers are	Topic 2: 22B, 30B-31, 33A-33B
reasonable.	Topic 3 : 62A-63B, 66
reasonable.	Topic 4: 85, 86A-87B, 89
	Topic 4: 65, 66A-67B, 69
	Topic 3 : 130-131 Topic 7 : 174A-175B, 184A-185B
- Decide when estimation is an appropriate	·
Decide when estimation is an appropriate	Topic 2 : 22B, 30B-31, 33A-33B
strategy for solving a problem.	Topic 3 : 62A-63B, 66
	Topic 4 : 85, 86A-87B, 89
	Topic 5 : 130-131
	Topic 7 : 174A-175B, 184A-185B
 Determine appropriate accuracy and precision of measurement in problem situations. 	Topic 12 : 296A-297B, 298A-299B
Use properties of numbers and operations to	Topic 2: 24A-26, 27A-27B
perform mental computation.	Topic 3 : 60A-61B
	Topic 7 : 170
 Recognize when the numbers involved in a 	Topic 2 : 24A-26, 27A-27B
computation allow for a mental computation	Topic 3 : 60A-61B
strategy.	Topic 7: 170
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Technology	
Technology should be used as a tool in	Technology is fully integrated into the
mathematics education to support and extend the	curriculum.
mathematics curriculum.	www.pearsonsuccessnet.com features
	eTools, Visual Learning Animation and
	an <i>Animated Glossary</i> to support and
	extend the curriculum as does the
	Going Digital feature. The following are
	representative examples:
	Topic 1: 4B, 4, 5B, 6-7, 10B, 10-11, 11B,
	17
	Topic 2 : 24B, 24-25, 27B, 29B, 37, 37B, 49
	Topic 3: 58B, 58-59, 59B, 60-61, 61B, 77
	Topic 4: 84B, 84-85, 85B, 101, 109, 113
	Topic 6: 146-147, 147B, 151, 151B, 155B
	Topic 9: 220B, 220-221, 223B, 227B, 241
	Topic 13: 325, 325B, 326-327, 327B,
	329B
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continued	Topic 15 : 376-377, 378-379, 380-381, 382B Topic 16 : 396B, 396-397, 398-399, 400-401 Topic 19 : 464-465, 468-469, 470-471, 474B
Technology can contribute to concept development, simulation, representation, communication, and problem solving.	There is <i>Visual Learning Animation</i> In every lesson related to animated learning bridges. www.pearsonsuccessnet.com eTools digital activities are found throughout the program. The following are some representative examples: Topic 2: 24-25, 28-29, 30-31, 34-35, 37B Topic 3: 60-61, 62-63, 64-65, 67B, 68-69 Topic 6: 146-147, 148-149, 152-153, 161B Topic 7: 170-171, 172-173, 174-175, 175B Topic 9: 220-221, 223B, 224-225, 226-227 Topic 10: 256B, 256-257, 260-261, 262-263 Topic 11: 278-279, 280B, 280-281, 284-285 Topic 15: 376-377, 378-379, 380-381, 382B Topic 16: 396B, 396-397, 398-399, 400-401 Topic 19: 464-465, 468-469, 470-471, 174B
The challenge is to ensure that technology supports-but is not a substitute for- the development of skills with basic operations, quantitative reasoning, and problem solving skills.	The technology that is integrated into the curriculum supports but is not a substitute for development of basic skills. www.pearsonsuccessnet.com features eTools, Visual Learning Animation, Going Digital and Animated Glossary to support the development of skills. The following are representative examples: Topic 1: 4B, 4-5, 5B, 6B, 9B, 10-11, 11B Topic 5: 122B, 122-123, 123B, 135B Topic 6: 146-147, 148-149, 152-153, 161B Topic 8: 200-201, 203B, 207B, 208, 211B

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continued	Topic 9: 220B, 220-221, 223B, 227B, 241 Topic 10: 256B, 256-257, 259B, 264B Topic 13: 325, 325B, 326-327, 327B, 329B Topic 16: 396B, 396-397, 398-399, 400B Topic 18: 430-431, 431B, 432B, 435B Topic 19: 469B, 4470-471, 471B, 473B Topic 20: 486B, 486-487, 487B, 488, 493B
o Elementary students should learn how to perform thoroughly the basic arithmetic operations independent of the use of a calculator.	Topic 2: 38A-40, 41A-41B Topic 3: 58A-59B, 60A-61B, 64B-65, 67A-67B, 68A-69B, 70A-71B Topic 4: 84A-85B, 90A-92, 93A-93B, 94A-95, 97A-97B, 98A-99, 101A-101B, Topic 5: 122A-123B, 128A-129B, 130A-131, 133A-133B, 134A-135B, 136A-137B Topic 7: 170A-171B Topic 9: 223
o The focus must be on learning mathematics, using technology as a tool rather than as an end in itself.	Technology features eTools, Visual Learning Animation and Animated Glossary to support the curriculum as skills are presented to the student. (www.pearsonsuccessnet.com) The following are representative examples: Topic 1: 5B, 6-7, 10B, 10-11, 11B,17 Topic 5: 122B, 122-123, 123B, 135B Topic 6: 148-149, 152-153, 155B, 161B Topic 8: 200-201, 203B, 207B, 208, 211B Topic 9: 220-221, 223B, 227B, 232B, 241 Topic 10: 264B, 264-265, 265B, 266-267 Topic 13: 322-323, 325B, 326-327, 330B Topic 16: 400B, 401B, 402-403, 403B Topic 18: 432B, 440B, 440-441, 443B Topic 19: 469B, 4470-471, 471B, 473B Topic 20: 491B, 493B, 494-495, 495B