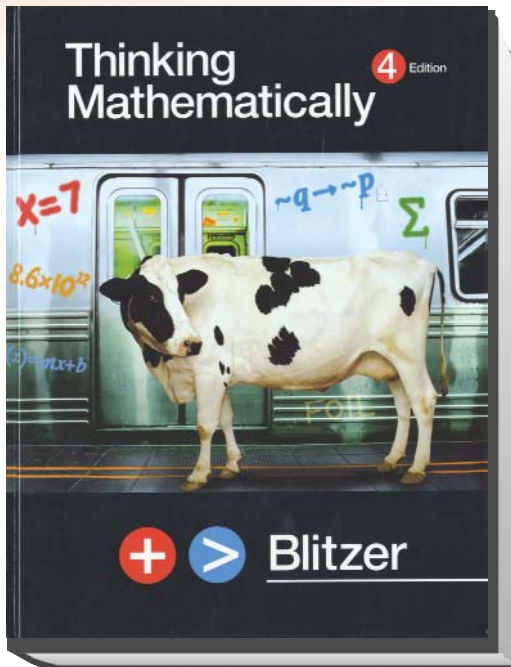


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C O R R E L A T E D T O

North Carolina Essential Standards Draft for Discrete Math

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Correlated to:

North Carolina Essential Standards Draft dated 3/26/09 for Discrete Math

North Carolina Essential Standards Draft dated 3/26/09 for Discrete Math	Thinking Mathematically, 4th Edition © 2008
Discrete Mathematics Essential Standards (3/26/09)	
Discrete Mathematics	
A.D.1 Use recursion to model and solve problems.	
A.D.1.a Find the sum of a finite sequence.	SE/TE: 295
A.D.1.b Find the sum of an infinite sequence.	
A.D.1.c Determine whether a given series converges or diverges.	SE/TE: 292-294
A.D.1.d Write explicit definitions using iterative processes, including finite differences and arithmetic and geometric formulas.	SE/TE: 288-290, 292-294, 299
A.D.1.e Verify an explicit definition with inductive proof.	SE/TE: 3-6, 8, 18, 84-85
A.D.2 Use matrices to model and solve problems.	
A.D.2.a Display and interpret data.	SE/TE: 680-683, 685-688, 723-725
A.D.2.b Write and evaluate matrix expressions to solve problems.	
A.D.3 Use graph theory to model relationships and solve problems.	SE/TE: 824-826, 828-830, 834-838
S.D.1 Describe data to solve problems.	
S.D.1.a Apply and compare methods of data collection.	SE/TE: 681-684
S.D.1.b Apply statistical principles and methods in sample surveys.	SE/TE: 680-682
S.D.1.c Determine measures of central tendency and spread.	SE/TE: 692-693, 695-697, 700, 705, 713
S.D.1.d Recognize, define, and use the normal distribution curve.	SE/TE: 712-715, 717, 719-723
S.D.1.e Interpret graphical displays of data.	SE/TE: 685, 687-688
S.D.1.f Compare distributions of data.	SE/TE: 706-710, 714-717
S.D.2 Use theoretical and experimental probability to model and solve problems.	
S.D.2.a Use addition and multiplication principles.	SE/TE: 644-647, 654-657
S.D.2.b Calculate and apply permutations and combinations.	SE/TE: 615-617, 620-624, 630-635
S.D.2.c Create and use simulations for probability models.	SE/TE: 624-625, 630-633, 660
S.D.2.d Find expected values and determine fairness.	SE/TE: 663-667
S.D.2.e Identify and use discrete random variables to solve problems.	SE/TE: 627-629, 635-639
S.D.2.f Apply the Binomial Theorem.	SE/TE: 610-612, 627-629, 635-638
S.D.3 Model and solve problems involving fair outcomes:	
S.D.3.a Apportionment	SE/TE: 796-797, 799-803
S.D.3.b Election Theory	SE/TE: 772-778, 784-786, 788-790, 799-803
S.D.3.c Voting Power	SE/TE: 772-778, 784-786, 788-790, 798-803
S.D.3.d Fair Division	SE/TE: 772-776