Numeracy

Dates: February 2, 2009 to March 20, 2009
Unit Three: Decimals

Unit	Essential Question(s)	State Standards	DCP Standards	Skills	Assessments
3 2/2/09 to 3/20/09 7 weeks	Decimal concepts and arithmetic.	Spans many K-8 standards.	**Numeracy:** 1.1 Add, subtract, multiply, and divide single and multi-digit numbers, including decimals to the thousandths place. 1.2 Round numbers to any place value. 1.3 Multiply and divide by powers of 10 by moving the decimal point. 2.1 Model numbers with base-10 blocks and know how to exchange between place values in the decimal system. 2.2 Correctly say and spell individual place values and number names into the billions.	**Week 1:** Extending place value. Representing base-10 fractions as decimals. **Week 2:** Converting between fractions and decimals. **Week 3:** Plotting decimals. Ordering decimals. **Week 4:** Ordering decimals. Rounding decimals. Review of decimal concepts. **Week 5:** Adding, subtracting, and multiplying decimals. **Week 6:** Decimal division. Multiplying and dividing by powers of 10. **Week 7:** Review and comprehensive test.	Diagnostics test at the beginning of the unit. One-minute division quizzes. Warm-up exercises. Homework assignments. Poster presentations on ordering, adding, and subtracting decimals. Comprehensive unit exam.

Numeracy

Dates: March 23, 2009 to April 24, 2009
Unit Four: Polynomials (using Algeblocks)

Unit	Essential Question(s)	State Standards	DCP Standards	Skills	Assessments
4 3/23/09 to 4/24/09 5 weeks (4 weeks without spring break)	Polynomial arithmetic (necessary for success on the Algebra 1 STAR).	Algebra 1 (Grades 8 through 12) 10.0 Students add, subtract, multiply, and divide monomials and polynomials… 11.0 Students apply basic factoring techniques to second- and simple third-degree polynomials… 12.0 Students simplify fractions with polynomials in the numerator and denominator by factoring both and reducing them to the lowest terms.	This unit is designed to prepare students for the STAR, so it covers Algebra 1 state standards instead of DCP Numeracy standards.	**Week 8:** Representing polynomials with Algeblocks. Simplifying polynomials with Algeblocks. **Week 9:** Algeblock perimeter problems. Adding, subtracting, and multiplying polynomials with Algeblocks. **Week 10:** Multiplying polynomials with tables. Factoring polynomials with Algeblocks. **Week 11:** Spring break. **Week 12:** Dividing polynomials with Algeblocks. Review / practice test. Comprehensive test.	One-minute division quizzes. Warm-up exercises. Homework assignments. Comprehensive exam.

Numeracy

Dates: April 27, 2009 to June 5, 2009
Unit Five: Percents

Unit	Essential Question(s)	State Standards	DCP Standards	Skills	Assessments
5 4/27/09 to 5/22/09 4 weeks	Percent concepts and arithmetic.	Spans many K-8 standards.	**Numeracy:** 4. Know when and how to apply numeracy concepts to relevant applications.	**Week 13:** STAR testing. Diagnostics test. **Week 14:** Ratios and proportions; similar figures and scale drawings; converting percents to fractions and decimals. **Week 15:** Converting decimals and fractions to percents; solving percent problems using proportions; solving percent problems using percent equations. **Week 16:** Percent of change, discount; review and practice test; unit 5 comprehensive test	One-minute division quizzes. Diagnostics test at the beginning of the unit. Warm-up exercises. Homework assignments. Group posters on solving real-life word problems using ratios and proportions. Comprehensive exam.