

## ST. LUKE'S SCHOOL

**Course Name:** Algebra 1

**Instructor's Name:** Nancy Knewstep

**About the Teacher:** I received my B.S. from Virginia Polytechnic Institute and State University and have taken a number of continuing education classes during the ensuing years. My previous teaching experiences include Headstart in Fairbanks, Alaska, and teaching the gifted elementary program at Orange Elementary, as well as day care work and working with special education. This will be my 24th year with St. Luke's. My daughter Lindsey is a graduate of St. Luke's and is attending Jefferson College of Health Sciences in Roanoke, VA.

**Text:** *Algebra I*, McDougal, Littell

**Materials:** TI-82, TI-83 or TI-84 (Graphing Calculators),  
Provided at school: pencil for all tests, graphing paper, college rule notebook paper

**Contact Information:**

Planning time at school: 4<sup>th</sup> and 5<sup>th</sup> period  
School voice mail- 825-1776 ext. 54  
Email- [nknewstep@stlukes-school.org](mailto:nknewstep@stlukes-school.org)  
Home: 6-9 p.m. School Directory for number

**Units of study:**

Connections to Algebra  
Properties of Real Numbers  
Solving linear equations  
Graphing linear equations and functions  
Writing linear equations  
Solving and Graphing linear inequalities  
Exponents and exponential functions  
Quadratic equations and functions

**Method of Delivery:** Lecture, notes, discussions, cooperative learning, computation

**Learning Goals:**

- Know how to use their graphing calculator to efficiently assist students in higher math and science courses.
- Know how to write, solve and graph linear equations, inequalities and functions.
- Know how to correctly utilize the order of operations when solving algebraic equations and functions.
- Understand the relationship between graphing linear equations and solving systems of linear equations.

- Know how to simplify and solve radical and exponential functions.
- Know how to graph and solve quadratic equations and functions.

**Assignments, Evaluation, and Grading Policy:**

**Homework-** Homework is for student practice and self evaluation of material covered. Students are expected to complete all homework assignments. If a student is having difficulty with the homework he/she should contact me before class. Class participation and completion of homework is taken into consideration for the overall grade.

**Quizzes-** are generally administered mid-chapter.

**Tests-** are administered at the end of each chapter..

**Midterm-**20% 1<sup>st</sup> semester average for 9<sup>th</sup> graders

10% 1<sup>st</sup> semester average for 8<sup>th</sup> graders

**Final-** 20% 2<sup>nd</sup> semester average for 8<sup>th</sup> and 9<sup>th</sup> graders

**Grading Scale:** School policy