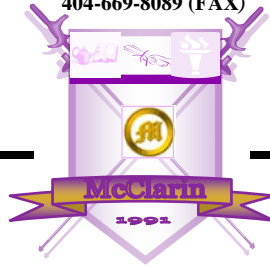


Frank McClarin High School

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College Park, Georgia 30337
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Anita Marie Lee, Principal
Shadelle Denson, Assistant Principal
Sabrina Richardson, Administrative Assistant

Stella Wilson, Counselor
Emory Fears, Counselor
Detra Burrell, Graduation Coach



Algebra II 2nd semester School year 2008 – 2009

Instructor: Carson Howard Phone number: 404 – 669-8080

Email: HowardC@fulton.k12.ga.us

Conferences and tutorial: Monday – Friday 7:30 – 8:00 am & 3:00 – 3:30

Textbook: **McDougal Littell Algebra 2 Applications, Equations and Graphs \$48.75**

Course Focus:

Students enrolled in Algebra II should be prepared to handle basic skills, applications, connections and calculator activities in the area of completed numbers, quadratic equations, quadratic relations and functions conics, and polynomial functions.

Course Outline:

Chapter 7 Powers, Roots, and Radicals (review)	1 week
Chapter 8 Exponential and Logarithmic Function	2 weeks
Chapter 9 Rational Equations and Functions	3 weeks
Chapter 10 Quadratic Relations and Conic Sections	2 weeks
Chapter 11 Sequences and Series	2 ½ weeks
Chapter 12 Probability and Statistics	1 ½ weeks

Objectives:

- 1) Use rational exponents and the nth roots of numbers.
- 2) Perform operations with and find inverses of functions.
- 3) Graph radical functions and solve radical equations.
- 4) Graph and use exponential, logarithmic, and logarithmic growth functions.
- 5) Solve exponential and logarithmic equations.
- 6) Simplify and perform operations with rational equations.
- 7) Graph rational functions and solve rational equations.
- 8) Graph and write equations of conics, and how to classify conic.
- 9) Solve systems of quadratic equations.
- 10) Find terms of sequences and write algebraic rules to define sequences.
- 11) Use summation notation and find sums of arithmetic and geometric series.
- 12) Calculate and use probabilities.

13) Use binomial and normal distributions.

Grading Procedures:

Test	10%
Classwork / (Practice Problems)	20%
Class Participations	20%
Projects	20%
Homework / Notebook	15%
Final exam	15%

Grading scales:	90 – 100	A
	80 – 89	B
	70 – 79	C
	Below 70	Failure

Students are expected to attend class daily.

Class Rules:

- 1) Be on time.
- 2) Be respectful of others, yourself and your teacher
- 3) Be prepared
- 4) Listen attentively and follow directions.
- 5) Complete all assignments on Time.

Plato students must complete all work in Plato lab, then take the final exam in Room 203 with Ms. Howard.

Students may receive recovery Tuesday & Thursday from 3:00 – 3:45

The teacher has the right to adjust the syllable to meet the needs of all students.

Algebra II 2nd semester Daily Pacing Chart

Day 1 Meet students	Day 2 QCC: 1,2,20,22 What is a radical? Read pages 401 – 406 Do problems 13 - 44	Day3 QCC:,3,17,21 Explain a fraction exponent? Read pages 407 – 414 D0 problems 5 - 46	Day 4 QCC: 1, 9 What is a power function? Read pages 415 – 420 Do problems 5 - 39	Day 5 QCC: 1, 2, 10 What is an inverse function? Read pages 422 – 429 Do problems 6 - 27
Day 6 QCC: 1, 2, 3, 9, 10,17, 20, 21, 22 Quiz 1	Day 7 QCC: 1,2 What is a radical function? Read pages 431 – 436 Do problems 4 - 27	Day 8 QCC: 1,2,23 Why do you check for extraneous solutions? Read pages 437 – 444 Do problems 17 - 45	Day 9 QCC: 1,2,47,58, Explain mean, median, mode. Read pages 445 – 452 Do problems 4 - 29	Day 10 QCC: 1,2,3, 9, 10, 17, 20, 21, 22, 23, 47, 58 Chapter 7 Test
Day 11 QCC: 1, 2, 36, What is an asymptote? Read pages 465 – 472 Do problems 4 – 33	Day 12 QCC: 1, 41, 47 What is an exponential growth or decay? Read pages 474 – 479 Do problems 4 - 26	Day 13 QCC: 1, 2, 3, 41 What is natural base e? Read pages 480 – 485 Do problems 4 - 32	Day 14 QCC: 1,37, 38, 39,41 What is a logarithm? Read pages 486 – 492 Do problems 5 - 47	Day 15 QCC: 1, 2, 3, 36,37,38,41,47 Quiz 2
Day 16 QCC: 1,2,37,41 What is the product property of log? Read pages 493 – 499 Do problems 14 - 57	Day 17 QCC: 1, 40, 41 What is the quotient property of log? Read pages 501 - 506 Do problems 4 - 30	Day 18 QCC: 1, 2, 49 How do you model an exponential function? Read pages 509 – 516 Do problems 4 - 28	Day 19 QCC: 1, 2, 40, 41, 49 Extra Practice pg 950 Do problems 21 – 49, 86 - 93	Day 20 QCC: 1, 2, 3, 36, 37, 38, 39, 40,41, 47, 49 Chapter 8 Test
Day 21 QCC:1,19, What is an inverse variation? Read pages 534 – 539 Do problems 4 - 34	Day 22 QCC: 35, 47 What is a joint variation? Read pages 540 – 546 Do problems 11 - 31	Day 23 QCC: 1,2 What is the rule for multiplying fractions? Read pages 547 – 553 Do problems 11 - 37	Day 24 QCC: 1, 2, 17 What is the rule for dividing fractions? Read pages 554 – 557 Do problems 3 - 39	Day 25 QCC: 1, 2, 17 What is the rule for multiplying & dividing rational expression? Pages 953 (26 – 52)
Day 26 QCC: 1, 2, 17, 19, 35, 47 Quiz 3	Day 27 QCC: 1, 17 What is the rule for adding fraction? Read pages 562 – 565 Do problems 5 - 25	Day 28 QCC: 2, 17 What is the rule for subtracting fraction? Read pages 566 – 567 Do problems 26 - 40	Day 29 QCC: 1, 2, 17 What is the rule for adding rational expression? Read pages 568 – 571 Do problems 5 - 32	Day 30 QCC: 1,2, 17 What is the rule for subtracting rational expression? Read pages 572 – 574 do problems 5 – 32
Day 31 QCC: 1,2, 17,19 What is a complex fraction? Read pages 575 – 578 Do problems 4 - 31	Day 32 QCC: 1,2,17, 19, 35, 47 Extra practice: Page 953 (51 – 70)	Day 33 QCC: 1, 2, 17, 19, 35,47 Chapter 9 Test	Day 34 QCC: 1, 33 What is the distance formula? Read pages 589 – 594 Do problems 4 - 31	Day 35 QCC: 1, 34 What are the focus and the directrix? Read pages 595 – 600 Do problems 4 - 37
Day 36 QCC: 1,2,34 What are both formula for a circle? Read pages 601 – 607 Do problems 5 - 28	Day 37 QCC: 1,34 What is an ellipse? Read pages 609 – 613 Do problems 5 - 29	Day 38 QCC: 1, 2, 33, 34 Quiz 4	Day 39 QCC: 1, 2, 34 What is hyperbolas? Read pages 615 – 621 Do problems 4 - 30	Day 40 QCC: 1,34 What are the names of all the conics? Read pages 623 - 631 Do problems 4 - 28
Day 41 QCC: 1,33,34 What is the discriminant? Read pages 632 – 638 Do problems 4 - 33	Day 42 QCC: 1,2, 33, 34 Chapter 10 Test	Day 43 QCC: 1,2,47 What is a sequence? Read pages 651 – 657 Do problems 3 - 36	Day 44 QCC: 1,50,51 What is the common difference? Read pages 659 – 665 Do problems 4 - 39	Day 45 QCC: 1, 2,50 What is a common ratio? Read pages 666 – 670 Do problems 4 - 38
Day 46 QCC:1,51 What is a geometric sequence? Read pages 671 - 674 Do problems 4 - 40	Day 47 QCC1, 2, 47, 50, 51 Quiz 5	Day 48 QCC: 1, 51 What is a infinite series? Read pages 675 – 680 Do problems 4 - 37	Day 49 QCC1,50,15 What is a factorial? Read pages 681 – 688 Do problems 4 - 43	Day 50 QCC: 1,2,47,50,51 Chapter 11 Test
Day 51 QCC: 1,2,44 What is fundamental counting principle? Read pages 701 - 707 Do problems 5 – 49	Day 52 QCC: 1,2,45, What is a combination? Read pages 708 – 715 Do problems 5 - 40	Day 53 QCC:1,42,46 What is probability? Read pages 716 – 721 Do problems 5 - 38	Day 54 QCC: 1, 2, 47 What are compound events? Read pages 724 - 729 Do problems 4 – 39	Day 55 QCC: 1, 2, 42, 44, 45, 46, 47 Quiz 6
Day 56 QCC: 1, 2, 47, What is an independent event? Read pages 730 -735 Do problems 4 - 29	Day 57 QCC: 1,47,49 What is a binomial experiment? Read pages 739 – 744 Do problems 4 - 37	Day 58 Chapter 12 Test	Day 59 Review for final	Day 60 Final Exam