

# Rocky Mountain Lutheran High School

## MATH 11-12: MATH ANALYSIS COURSE SYLLABUS

**INSTRUCTOR: MISS PRESSER**

**EMAIL: [kpresser@rmlhs.org](mailto:kpresser@rmlhs.org)**

### Course Description

Math Analysis is a 2-semester college preparatory course, including instruction in trigonometry, modeling, statistics, conic sections, sequences, probability, transformations using matrices, and series. The content of this course serves as preparation for calculus.

The course is designed to give students a sound understanding of basic concepts and to enable students to apply a variety of techniques to practical situations. Graphing calculators are used as an integral part of the course.

### Course Materials

- Textbook
- Paper
- Pencil
- Graph paper
- Graphing Calculator

### Course Requirements and Expectations

Students in this class are expected to

- participate in all classroom activities.
- complete all homework assignments.
- respect the opinions of others.
- come to class prepared, every day, on time.
- follow the rules and procedures outlined in this syllabus.

### Grading Procedures

Overall grades will follow the schools grading scale.

Grades will be compiled using the following percentages.

Assignments/Quizzes	20%
Group Work	10%
Classroom Participation	10%
Exams	50%
Final Exam	10%

## Classroom Policies

**LATE WORK: I WILL accept late work!** Let me emphasize that it is your responsibility for completing the work. Credit for unexcused late work will be reduced to a maximum of 50%. Credit for excused late work will not be reduced but must be submitted by the date determined by the teacher.

**TARDINESS:** Being late to class not only means you miss out on classroom activities, but that your disruption and distraction causes others to miss out as well. If you are late to a class and are unexcused please wait outside the door until I allow you to come in. Continual tardiness will result in a reduction of your grade.

**CAN I GO...?:** To your locker? To the bathroom? To get a drink? Generally the answer is **no**. Take care of your personal needs on your own time and come to class prepared. However, situations do arise when it becomes necessary for you to leave the room. If you need to leave, please wait for an appropriate time to ask.

**EXTRA CREDIT:** There will be a few occasions, extra credit assignments will be offered. Extra credit will not be counted toward your grade until the end of the quarter.

**COMMUNICATION:** There is no reason for you to ever wonder what your grade is. Please feel free to ask for your grade at any time. I will give you your cumulative grade after each chapter exam, so hopefully there will be no surprises.

**CLASS PARTICIPATION:** Active participation during class is expected and can be demonstrated by asking questions of and answering questions from the teacher. Students are also expected to participate fully in all group projects.

**DISCIPLINE:** By now you have been in school for enough years to understand what behavior is expected of you. Disciplined behavior is expected of you at all times. The bottom line of any set of rules and regulations for classroom behavior is *respect*. Demonstrate respect for the people and property in the classroom, and we will have a terrific year.

**EXTRA HELP:** If you find that you need additional help from the instructor, "My door is always open." Please ask me anything. I will be in the office every morning by 8:00 am. I am willing to meet with you at any time that is available.

## Course Content

Attached to this syllabus is a list of all the assignments. You have no excuse for not knowing what is due. You will always be given time in class to complete the Classwork problems. If time allows you will be able to work on Homework problems.

As a student in Miss Presser's class, I have read and understand the syllabus for Math Analysis. I agree to abide by these rules and procedures, and to ask questions when I don't understand.

Signed,

\_\_\_\_\_ Dated: \_\_\_\_\_

Printed Student Name

\_\_\_\_\_

As a parent, I have also read and understand the policies and expectations set forth in this syllabus for Math Analysis. I will support these policies by encouraging my student to follow them.

Signed,

\_\_\_\_\_ Dated: \_\_\_\_\_

Parent Email Address

Best Contact Phone Number

\_\_\_\_\_

\_\_\_\_\_



Lesson	Classwork	Homework
<b>Unit 1: Models</b>		
1	IM-1 to 4	IM-5 to 15
2	IM-16 to 20	IM-21 to 31
3	IM-32 to 40	IM-41 to 49
4	IM-50, 51	IM-52 to 61
5	IM-62 to 65	IM-66 to 75
6	IM-76 to 82	IM-83 to 92
7	IM-93 to 98	IM-99 to 108
8	IM-109 to 114	IM-115 to 125
9	IM-126 to 129	IM-130 to 140
10	IM-141 to 144 <b>Quiz</b>	IM-147 to 149, 151 to 157
11	<b>Unit 1 Exam</b>	
<b>Unit 2: Area Between Curves</b>		
12	RL-1 to 5	RL- 6 to 13
13	RL-14 to 19	RL-20 to 28
14	RL-29 to 35	RL-36 to 45
15	RL-46 to 51	RL-52 to 61
16	RL-62 to 69	RL-70 to 78
17	RL-79 to 87	RL-88 to 96
18	RL-97 to 101	RL-102 to 110
19	RL-111 to 117	RL-118 to 126
20	RL-127 to 132	RL-133 to 142
21	RL-143 to 150	RL-151 to 159
22	RL-160 to 163	RL-164 to 173
23	RL-174, 175	RL-176 to 187
24	<b>Quiz</b>	
25	RL- 189 to 195	RL- 202 to 206
26	<b>Unit 2 Exam</b>	
<b>Logarithms</b>		
27	IL-1 to 17 & 17 to 24	IL- 8 to 16, 27 to 36
28	IL- 37 to 43, 53, 54	IL- 44 to 52 55 to 59
<b>Unit 3: Sinusoidal Functions</b>		
29	SP-1 to 10,19	SP-11 to 18
30	SP-20 to 23, 34 to 38	SP-24 to 33, 39 to 41
31	SP-47 to 54	SP-55 to 63
32	SP-64 to 70	SP-71 to 79
33	SP-80 to 86	SP-87 to 93
34	SP-94 to 100	SP-101 to 108
35	SP-109 to 114, <b>Quiz</b>	SP-115 to 122
36	SP-123 to 131, <b>Quiz</b>	SP-132 to 138
37	SP-139 to 145	SP-146 to 153
38	SP-165, 166,168,169	SP-156 to 163
39	<b>Quiz, Review</b>	
40	<b>Unit 3 Exam</b>	

Lesson	Classwork	Homework
<b>Unit 4: Algebra</b>		
41	AL-1 to 5	AL-6 to 15
42	AL-16 to 22	AL-23 to 32
43	AL-33 to 36	AL-37 to 45
44	AL-46, 47,48	AL-56 to 64
45	AL-65 to 68, 49	AL-51, 52,55, 75 to 80
46	AL-53, 69, 70 to 73	AL-54,74,84
47	AL-85 to 91	AL-92 to 102
48	AL-103 to 110	AL-111 to 120
49	AL-121 to 127	AL-128 to 138
50	AL-139 to 146	AL-148 to 158
51	<b>Quiz</b>	
52	<b>Unit 4 Exam</b>	
<b>Unit 5: Modeling and Trig</b>		
53	NW-1 to 7	NW-8 to 16
54	NW-17 to 22	NW-23 to 33
55	NW-34 to 41	NW-42 to 49
56	NW-50 to 55	NW-56 to 64
57	NW-65 to 69	NW-70 to 79
58	NW-80, 81	NW-82 to 92
59	NW-93 to 99	NW-100 to 107
60	NW-108, 109	NW-110 to 117
61	NW-118 to 124	NW-125 to 132
62	<b>Quiz</b>	
63	NW-134 to 138	NW-139 to 146
64	<b>Unit 5 Exam</b>	
<b>Statistics</b>		
65	QC- 1 to 7, 15	QC-8 to 14, 17
66	QC-16, 18, 25 to 29	QC-19 to 21, 30 to 36
67	QC-39 to 42	QC-43 to 49
68	QC-50 to 53 RC- 17 to 23	QC-54 to 63
<b>Unit 6: Statistical Analysis</b>		
69	RE-1 to 7	RE-6 to 16
70	RE-33 to 35	RE-25 to 28 36 to 44
71	RE-45 to 47	RE-48 to 58
72	RE-59 to 63	RE-64 to 74
73	RE-75, 76	RE-77 to 88
74	RE-89 to 91	RE-92 to 100
75	RE-101 to 104	RE-105 to 115
76	RE-116 to 118	RE-119 to 128
77	<b>Quiz</b>	
78	RE-130 to 134	RE-140 to 145
79	<b>Unit 6 Exam</b>	
<b>2-3 Week Course in Formal Logic</b>		

Lesson	Classwork	Homework
<b>Unit 7: More Trig</b>		
80	NP-1 to 6	NP-7 to 14
81	NP-15 to 20	NP-21 to 29
82	NP-30 to 33	NP-34 to 43
83	NP-44 to 47	NP-48 to 57
84	NP-58 to 65	NP-66 to 74
85	NP-75 to 81	NP-82 to 90
86	NP-91	TBA
87	NP-92 to 96	NP-97 to 105
88	NP-123 to 127	NP-128 to 136
89	<b>Quiz</b>	TBA
90	<b>Unit 7 Exam</b>	
<b>Polar Coordinates</b>		
91	PC-1 to 7	PC-8 to 17
92	PC-18 to 22	PC-23 to 33
93	PC-34 to 42	PC-43 to 51
94	PC-52, 53	PC-54 to 63
95	PC-64 to 67	PC- 68 to 77
<b>Unit 8: Limits</b>		
96	LM-1 to 7	LM-8 to 17
97	LM-18 to 25	LM-26 to 35
98	LM-36 to 42	LM-43 to 53
99	LM-54 to 63	LM-64 to 71
100	LM-72 to 78	LM-79 to 88
101	LM-89 to 94	LM-95 to 104
102	LM-105 to 111	LM-112 to 122
103	LM-123 to 130	LM-131 to 141
104	LM-142 to 151	LM-152 to 161
105	LM-162 to 186	LM-169 to 178
106	<b>Quiz</b>	TBA
107	<b>Unit 8 Exam</b>	
<b>Unit 12: Matrices</b>		
108	LT-1 to 5	LT-6 to 12
109	LT-13 to 18	LT-19 to 22
110	LT-31 to 39	LT-40 to 43
111	LT-44 to 50	LT-51 to 55
112	LT-56 to 60	LT-61 to 66
113	LT-67 to 72	LT-73 to 77
<b>Unit 13: Series</b>		
114	WM-1 to 9	WM-10 to 12
115	WM-18 to 22	WM-23 to 25
116	WM-26 to 30	WM-34 to 40
117	WM-41 to 47	WM-48 to 52
118	WM-53 to 55	WM-56 to 58
119	WM-59 to 64	WM-65 to 68
	<b>Quiz on 12 &amp; 13</b>	
As time allows we will take topics from units 10,11, and 12.		