Luella High School – Analytic Geometry Syllabus

INSTRUCTOR:

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Remind 101- *Text* **@**luellageo to 81010

COURSE DESCRIPTION:

        The focus of Analytic Geometry on the coordinate plane is organized into 6 critical areas. Transformations on the coordinate plane provide opportunities for the formal study of congruence and similarity. The study of similarity leads to an understanding of right triangle trigonometry and connects to quadratics through Pythagorean relationships. The study of circles uses similarity and congruence to develop basic theorems relating circles and lines. The need for extending the set of rational numbers and properties of rational and irrational numbers, rewrite expressions involving radicals, and perform operations on polynomials in preparation for working with quadratic functions. Quadratic expressions, equations, and functions are developed; comparing their characteristics and behavior to those of linear and exponential relationships from Coordinate Algebra. Circles return with their quadratic algebraic representations on the coordinate plane. The link between probability and data is explored through conditional probability. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

UNITS OF STUDY/PACING GUIDE:

1ST SEMESTER	*2ND SEMESTER*
Extending the Number System	Similarity, Congruence, and Proofs
Quadratic Functions	Right Triangle Trigonometry
Applications of Probability	Circles and Volume
	Geometric and Algebraic Connections

EXTRA HELP:

    Morning and/or afternoon tutoring is available from all teachers. Please ask each individual teacher for times in which they are available for tutoring.

GRADING POLICY:

		90 – 100	A
Standards	80%	80 – 89	B
		74 – 79	C
		70 – 73	D
Milestone	20%	Below 69.50	F

MAKE UP WORK:

- Make up work will be given according to the policy in the county handbook. Make up work/tasks must be completed within a week following the absence with teacher approval. Make up tests will be completed within the time allotted by county policy and may be a different format than original test.

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HOMEWORK:
- Homework is an integral part of each math lesson and must be done on a daily basis if maximum learning is to take place. Homework is the learning experience, which allows students practice of the concept(s) taught in class. Your success in mathematics depends on constant daily completion of homework. Homework is assigned every night and it is never assigned as a punishment. All work must be shown neatly. Homework will not be taken as a grade in the gradebook, but success in the class is highly dependent upon completing the nightly asignments. YOU **MUST STAY ORGANIZED TO BE SUCESSFUL.**

Notebook:
- You must have a separate Analytic Geometry 3-ring binder. You are required to keep an organized 3-ring binder with loose-leaf and graph paper.   If you would like to organize your notebook with tabs, have WARM-UPS, NOTES, PRACTICE, HOMEWORK, & QUIZZES

Calculators (TI-83 or TI-84 PLUS):
- These calculators are permitted on the majority of the course. Different calculators will be allowed during specific units. You may purchase your own (which may be used in all remaining math courses) or we will have the calculators available in each class.

Donations: paper towels, dry erase markers (no odor), copy paper, pencils, and hand sanitizer.

Classroom Rules & Expectations:
1. Demonstrate respect for yourself, others, and the classroom.
2. Take care of personal needs – restroom, grooming, locker -- before you come to class.
3. Bring paper, pencil, homework, notebook, and calculator every day.
4. No chewing, eating, or drinking in the classroom.
5. Follow all the rules written in the student handbook.

Attendance Policy and Procedures: The county-wide policy on makeup work will be followed. It is the student's responsibility to document excused absences and to request, complete, and turn in makeup work in the time allowed according to School policy. All assignments are expected to be completed to demonstrate concept mastery.

Cell Phones:
- Students may not have phones **OUT** during any graded assignments. Students will be asked to turn off phones and put in book bags or purses during all tests.   If a student has a phone out during a test it will be considered cheating. Cell phones may be used during other times for instructional purposes <u>at the teacher's discretion</u>.

I understand the course requirements and expectations as outlined in the Analytic Geometry course syllabus. I understand that I may contact the instructor at LHS with any concerns that I may have.

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Student signature   Date   Parent signature   Date
Keep this copy in your folder at all times