

# ALG I COURSE SYLLABUS

**Teacher: Mrs. Hess**

**School Phone: 726-5615**

**Conference Hour: 12:30 pm – 1:20 pm**

**School Hours: 8:00 am-3:05 pm**

**COURSE RATIONAL:** Mathematics is recognized as the key to technology and the bases of many other fields; therefore, it is imperative to prepare students to be competent mathematicians. With the knowledge of mathematics, the students will be prepared to incorporate these skills into their personal life and their career choice. This course is a major building block in the field of mathematics; it is designed to expose the students to the concepts of symbols, analyzing, representing and solving a variety of problems. It serves as a preparation course for all mathematics courses. This course is required for college entrance. This is the foundation of all mathematics classes. Not only is this class a required for college, you will be test by the State Department of Education for your competency level of Algebra I. You are required to pass this test to receive your high school diploma.

**COURSE OBJECTIVES:** This course will determine your success level in all mathematics classes you will take after Algebra I. Upon completion of this course, each student will have worked with; variable expressions, equations, inequalities, verbal and algebraic models, functions; adding, subtracting, multiplying and dividing real numbers, linear equations, ratios, rates, precents, slope, slope-intercept form, point-slope form, standard form, linear model, perpendicular lines; absolute-value equations and inequalities; systems of linear equations and inequalities; multiplying and dividing expressions with exponents, scientific notation, exponential growth, decay models, square roots, radicals, quadratic equations, quadratic functions, quadratic inequalities, polynomials, factoring; quadratic and cubic equations, inverse variation, rational expression, proportions and rational equations.

**COURSE EXPECTATIONS:** Students will be expected to;

1. Participate in class discussion and other class activities.
2. Make-up work do to an absent, under the following conditions;
  - a. Within the allotted time limit,
  - b. Excused absents for full credit,
  - c. School absents for full credit,
  - d. UN-excused absents for at most 70% credit,
3. Check with me about work, if they know they are going to miss class.

**LEARNING ACTIVITIES:** Learning activities will be in the following forms;

1. Notes that are given in class or can be downloaded from: <http://www.hessk.hobart.k12.ok.us/>,
2. Assignments that will be given,
3. In class work such as guided practice, examples but not limited to,

**ASSIGNMENT FORMAT:** All students will be expected to follow the following format;

1. Be on notebook paper or in a notebook,
2. Be worked in pencil,
3. Show all work,

**EVALUATION TOOLS:** Are as follows;

1. Quizzes given either with notice or without notice,
2. Test given approximately every two weeks,
3. Accumulative test given at the end of each nine weeks and semester,

**SUPPLY LIST:** Students will need the following supplies daily to class;

1. Notebook or a Binder with loose-leaf paper,
2. Pencil or Mechanical pencil, (preferred)
3. Ruler,
4. Compass,
5. Protractor,
6. Colored pencils.

A TI-30XS calculator is recommended for this class, but will only be provided for in class work. Students may use any type of scientific calculator, but each student will be responsible for learning how to run it. TI-30XS calculators may be purchased form Mrs. Sims in room 116 at the high school.

**GRADE POLICY:** Grades will be figured as follows. Test will be 70%, the quizzes will be the other 30%. The accumulative nine weeks test will be written down in the grade book three times.

Semester grade will be figure by taking 40% of 1<sup>st</sup> nine weeks grade, 40% of 2<sup>nd</sup> nine weeks grade and 20% of the accumulative semester test.

**NOTE:** Place this syllabus in the front of your notebook.