



Financial Algebra Syllabus
CHS Mathematics Department

Contact Information: Parents may contact me by phone, email, or visiting the school.

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Teacher Contact Websites:

- Course Sites/Blackboard

CCSD Vision Statement: The Chillicothe City School District will provide tomorrow's leaders with a high quality education by developing high expectations and positive personal relationships among students, staff, and community members.

CCSD Mission Statement: The Chillicothe City School District empowers students to learn, to lead, and to serve.

Course Description and Prerequisite(s) from Course Handbook:

Financial Algebra - 273

State Course #: 119999

Prerequisite: Algebra II (Career Prep)

Required Option **Grade:** 11-12

Graded Conventionally **Credit:** 1

Course Description:

This course is designed to build upon previous knowledge and skills to solve a variety of arithmetic problems that are commonly found in personal and business financial situations. Students develop the skills necessary to solve mathematical problems, analyze and interpret data, and apply sound decision-making skills in business and personal financial situations. Topics include Taxation, Savings and Investments, Credit Management, Cash Management, Financial Statements. This course will meet half a credit towards the mathematics requirement for graduation; however this course does not count towards an honors diploma.

Learning Targets: Defined below for clarity are the Unit Titles, Big Ideas of every Unit taught during this course, and the Essential Questions to be

answered to better understand the Big Ideas. A student's ability to grasp and answer the Essential Questions will define whether or not he or she adequately learns and can apply the skills found in Big Ideas. This will ultimately define whether or not a student scores well on assessments administered for this course.

- **1st Quarter**

- **Unit I Title: Managing Your Money**

- **Big Idea #1:** I can calculate and differentiate all forms of gross income.
 - *Essential Question #1: What is and how is straight-time pay calculated?*
 - *Essential Question #2: What is and how is overtime pay calculated?*
 - *Essential Question #3: How is a weekly time card used to determine the number of hours a person has worked?*
 - *Essential Question #4: What is piecework and how is this income different from straight-time pay?*
 - *Essential Question #5: What is and how is salary calculated?*
 - *Essential Question #6: What is commission, how is it calculated, and what are the pros and cons of this income?*
 - *Essential Question #7: What is graduated commission and how is it different than regular commission?*
 - **Big Idea #2:** I can calculate deductions to determine net pay.
 - *Essential Question #1: What is federal income tax and how is the tax table used to determine the withholdings?*
 - *Essential Question #2: What is state income tax and how is this calculated?*
 - *Essential Question #3: What is graduated state income tax and how is this different from regular state income tax?*
 - *Essential Question #4: What is group health insurance and how are the withholdings calculated?*
 - *Essential Question #5: What is a statement of earnings and how is it used to find the net pay?*
 - **Big Idea #3:** I can keep records of income and monthly expenses to better analyze financial decisions.
 - *Essential Question #1: How is average monthly expenditures calculated?*

- *Essential Question #2: How is a budget sheet prepared and how is it used to analyze income vs. expenses?*
 - **Unit II Title: Managing Your Money Real World Application**
 - **Big Idea #1:** I can apply what I learned in Unit 1 to the real world through project based learning.
- **2nd Quarter**
 - **Unit III Title: Checking and Savings Accounts**
 - **Big Idea #1:** I can calculate balances of checking and savings accounts given income and expenses.
 - *Essential Question #1: What is a deposit and how is this calculated?*
 - *Essential Question #2: How is a check and a deposit slip written?*
 - *Essential Question #3: What is a check register and how is it used to determine a current account balance?*
 - *Essential Question #4: What is a bank statement and how is it used to determine a current account balance?*
 - *Essential Question #5: How are accounts reconciled using a check register vs. a bank statement?*
 - *Essential Question #6: What is online banking and how can the service charge be determined?*
 - **Big Idea #2:** I can calculate final account balances with various rates of compounding interest.
 - *Essential Question #1: What is simple interest and how is this used to determine the account balance?*
 - *Essential Question #2: What is compound interest, how is this different from simple interest, and how is this used to find a current account balance?*
 - *Essential Question #3: How is a compound interest table used to determine the amount of money added to an account?*
 - *Essential Question #4: What is daily compounding and how is this chart used to determine the amount added to an account?*
 - **Unit IV Title: Checking and Savings Account Real World**
 - **Big Idea #1:** I can apply what I learned in Unit 3 to the real world through project based learning.
- **MID-TERM EXAM**
- **3rd Quarter**
 - **Unit V Title: Managing Your Expenses**
 - **Big Idea #1:** I can determine final purchase price of items/services of cash purchases.

- *Essential Question #1: What is sales tax and how is it used to determine the final cost of an item?*
 - *Essential Question #2: How is unit price used and why is this information useful when buying items in bulk?*
 - *Essential Question #3: How is the cost of an item adjusted after applying coupons, rebates, and markdowns?*
 - *Essential Question #4: What is the difference between percent off and percent paid method when finding the sale price of an item?*
- **Big Idea #2:** I can determine the cost for using charge accounts and online banking.
 - *Essential Question #1: What is a credit card and how is the balance calculated?*
 - *Essential Question #2: How is the finance charge found using the unpaid-balance method?*
 - *Essential Question #3: How is the finance charge found using the Average-daily-balance method?*
- **Big Idea #3:** I can calculate all aspects of various loans.
 - *Essential Question #1: What is a single payment loan and how is the interest and maturity value calculated?*
 - *Essential Question #2: What is an installment loan and how is the monthly payment, total amount repaid, and the finance charge found?*
 - *Essential Question #3: When paying off a loan, how much of the payment is going to interest and how much is actually paying off the loan?*
 - *Essential Question #4: When paying off a loan early, how is the final payment determined?*
- **Unit VI Title: Managing Your Expenses Real World Application**
 - **Big Idea #1:** I can apply what I learned in Unit 5 to the real world through project based learning.
- **4th Quarter**
 - **Unit VII Title: Making Financial Decisions**
 - **Big Idea #1:** I can determine the expenses related to buying a house
 - *Essential Question #1: What is a mortgage loan and how does the down payment affect this amount?*
 - *Essential Question #2: How is the monthly payment for a mortgage payment calculated?*
 - *Essential Question #3: What are closing costs and how does this affect the mortgage?*

- *Essential Question #4: How is a repayment schedule constructed for a mortgage loan?*
- *Essential Question #5: How is the assessed value of a home calculated and how is that used to find the real estate taxes?*
- *Essential Question #6: What is homeowner's insurance, how does it protect you, and how is the cost calculated?*
- *Essential Question #7: What are the various expenses that come with owning a home and how is the factored into a budget?*
- *Essential Question #8: What are the pros and cons of renting a home?*
- **Big Idea #2:** I can determine the expenses related to purchasing a vehicle.
 - *Essential Question #1: What determines the cost of a new vehicle?*
 - *Essential Question #2: How does the cost of a vehicle compare to the cost that a dealer might pay?*
 - *Essential Question #3: What are the different types of car insurance and how is the cost calculated?*
 - *Essential Question #4: What is depreciation and how it used to find the cost of a vehicle per mile?*
 - *Essential Question #5: What are the similarities and differences of leasing and renting a vehicle?*
- **Big Idea #3:** I can determine the cost of health and life insurance.
 - *Essential Question #1: What is the purpose of health insurance and how is a person's premium found?*
 - *Essential Question #2: What are the benefits that come with some health insurance plans?*
 - *Essential Question #3: What is life insurance and how can we use tables to compute the annual premium for term life insurance?*
- **Unit VIII Title: Making Financial Decisions Real World Application**
 - **Big Idea #1:** I can apply what I learned in Unit 7 to the real world through project based learning.
- **END OF COURSE EXAM**

Course Materials:

- Google Chromebook
- Notebooks
- Pencils

Electronic Resources:

- [Blackboard](#)/Course Sites
- Google Classroom: code TBA
- Google Apps
- Calculators

Course Expectations:

This course will require dedication. What you put into the class is exactly what you will get out of it. Personal Business Finance is most likely your final math course on your high school transcript, which means it will affect your high school GPA and ability to graduate. Grades are earned in this classroom and I am there to help you earn the best grade possible. This classroom is a partnership and will only work if we all work together. I am always available for extra help after school or through email. We will move at a quick pace through our syllabus so it is vital that you keep up with notes and assignments. I am looking forward to this school year and getting to know all of you!

Grading:

Unit Exams	50%
Assessments (Including: Quizzes, Essays, Labs, and Projects)	30%
Class work/Homework	20%

- Each nine week's grade comprises 20% of a student's final grade.
- The Mid-Term Exam and End of Course Exam each comprise 10% of a student's final grade.

Grading Scale:

The grading scale for Chillicothe High School can be found in the student handbook or online at

<http://www.chillicothe.k12.oh.us/1/Content2/studenthandbook>.

Late Work: Late work will be subject to the Board-adopted policy on assignments that are submitted late (to be reviewed in class).

- Regardless of the absence type (excused, unexcused, OSS, etc.), students are expected to make up work and be held accountable for learning all material they missed.
- Any student who is absent from school will receive one (1) additional day for every day he/she missed to make up his/her work for full credit (100%).
- Any student who exceeds the allotted time to turn in an assignment for full credit may still submit work late for partial credit.
 - Any student who turns in work up to 1 week late must at least be given the opportunity to earn 75% on that assignment.

- Any student who turns in work between 1 and 2 weeks late must at least be given the opportunity to earn 60% on that assignment.
- The end of the 9 weeks is the cut off point for teachers to accept late work from students for full or partial credit unless the teacher decides to give the student an incomplete for the 9 weeks due to extenuating circumstances.

Performance Based Section: Writing

Assignments/Exams/Presentations/Technology

One or more of the End of Unit Exams may be Performance Based. According to the Ohio Department of Education, “Performance Based Assessments (PBA) provides authentic ways for students to demonstrate and apply their understanding of the content and skills within the standards. The performance based assessments will provide formative and summative information to inform instructional decision-making and help students move forward on their trajectory of learning.” Some examples of Performance Based Assessments include but are not limited to portfolios, experiments, group projects, demonstrations, essays, and presentations.

CHS Financial Algebra Course Syllabus

After you have reviewed the preceding packet of information with your parent(s) or guardian(s), please sign this sheet and return it to me so that I can verify you understand what I expect out of each and every one of my students.

Student Name (please print):

Student Signature:

Parent/Guardian Name (please print):

Parent/Guardian Signature:

Date:
