Foundations
Spaulding High School
2021-2022 Course Syllabus

Course Title: Foundations
Department: Mathematics
Teacher Contact Information:
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Department Chair Information: Erin Carter; 476-4811 ext 2100; ecartshs@buusd.org

Course Description:
In the Foundations course, students examine topics such as integers, equations, order of operations, and graphing with the intention of building mathematical fluency and supporting good habits of math within the group. The topics are approached through a variety of methods. Work from the beginning of the course builds throughout the course, continuously reinforcing earlier strategies. **The goal of the course is to prepare students for Algebra 1.**

Topics/Areas of Study/Units of Study: See the attached Standards List.

Materials. Students need the following for class daily:
- Paper (lined and graph recommended)
- Writing Utensils (one of each will be provided):
  - Pencils/erasers
  - Highlighter
  - Colored pencils
  - Ruler
  - Dry erase marker (one will be provided, replacements will not be provided)
- Calculator: Graphing calculator (TI-83) is recommended for high school, but a basic calculator is required.

Replacement cost(s): No textbooks handed out.

Practice:
The classroom will be a semi-traditional setting. This means that students will be working in groups of their peers while also having whole class discussions and individual practice.

Students are expected to participate in class, work with their peers, complete assignments outside of class, and take assessments and reassessments.

Assessment/Reassessment:
Students will be assessed at the end of each unit, although intermediate assessments may be offered to support student learning. Assessments may take the form of tests or projects. Students will have the opportunity to reassess outside of class time, as well as having some reassessments built into the class.

Classroom Expectations:

- Cell phones are to remain in your bag and on silent during class.
- You may not use your phone as a calculator.
- If you are absent, it is your responsibility to make arrangements to make up missed work/assessments.
- Come prepared to class with all materials
- Students are expected to work with peers and teachers respectfully and productively.
- Every student is expected to make mistakes. We use our mistakes to move forward and learn.
- Extra Supports like math tutorial and tide pool, are available during school hours.

You are responsible for meeting the standards in this class.

Math tutorial schedule (additional times/locations for getting extra help):

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
AM: 7:05-7:35 Moore - 200	AM: 7:05-7:35 Moore - 200	AM: 7:05-7:35 Moore - 200	AM: 7:05-7:35 Moore - 200	AM: 7:05-7:35 Moore - 200
PM: 3:05-3:35 Dunlea - 101		PM: 3:05-3:35 Dunlea - 101	PM: 3:05-3:35 Dunlea - 101	PM: 3:05-3:35 Dunlea - 101

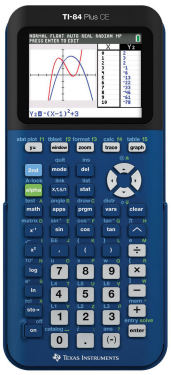
Foundations Standards Checklist 21-22

In order to receive credit, all 5 shaded standards NEED to be Proficient, and the last standard NEEDS to be at least Developing.

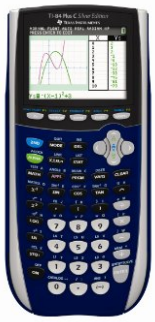
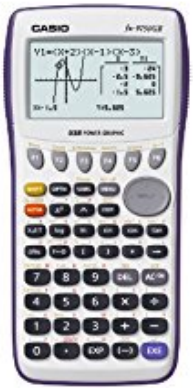
Standards		Performance Indicators	*Mark*
A. Algebra	*1*	Organize and use guess and check tables	
	2	Construct algebraic expressions and equations	
	3	Solve one variable equations	
	4	Distribute and factor algebraic expressions	
	5	Solve algebraic proportions	
B. Graphing	*1*	Correctly read and graph points on a coordinate plane	
	2	Graph a line given slope and intercept and find the slope and intercept given a graph.	
	3	Graph 2 linear equations to find a solution	
C. Numeracy	*1*	Perform operations with positive and negative integers	
	2	Correctly apply order of operations	
	3	Perform operations with fractions	
	4	Move between any combination of fractions, decimals and percentages	
	5	Demonstrate exponent properties	
	6	Execute squaring and square roots correctly and appropriately	
D. Metacognition	*1*	Reflect on change in mathematical understanding (Expect grade to become proficient over time as a student learns to reflect during the year).	
E. Multiple Representations	*1*	Recognize and explain patterns	
	2	Recognizing Linear Change in a table, graph, equation	
	3	Recognizing Exponential Change in a table, graph, equation	
F. Geometry	*1*	Find and apply similarity (dilation/scale) ratios	
	2	Area and Perimeter of Regular Geometric Shapes	
	3	Correctly use the Pythagorean theorem	

Choosing Your Calculator

These calculators will be used all 4 years of high school (and college), so choosing the right tool and keeping it in good condition is important.

<table>
<tr>
<td>Good Choices:</td>
<td>
TI-83 Plus
The basic workhorse for a reason. Getting the job done for 20 years.
$75-$100</td>
<td>
TI-84 Plus
Not much different from the 83 Plus. A little faster, but essentially the same.
$70-$110</td>
<td> 
TI-84 Plus CE
Rechargeable batteries
Different colors on graphs
Better picture quality
Super thin
<u>Requires charging by cable</u>!
$99-$150</td>
</tr>
<tr>
<td>Poor Choices:</td>
<td>Beware: students would have to teach themselves to use it.

Otherwise, a good calculator.

TI-Nspire CX
Rechargeable batteries
Picture quality colors
<u>Requires charging by cable</u>!
$125-$150</td>
<td>Beware: This one has had some charger/battery issues in the past couple years, so I don't recommend it...plus it's more expensive...
 
TI-84 Plus C Silver Edition
$112</td>
<td>Beware: Others
You can purchase Casios but beware that students would have to teach themselves to use it.
  </td>
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If purchasing a calculator presents a financial hardship, there will be scholarship forms available in August. *Please be sure you have free lunch forms filled out prior to applying for a scholarship calculator*.

Scholarship Calculator Request Form

The Spaulding math department can provide some graphing calculators for students who qualify for free or reduced lunch (this also means the lunch forms must be filled out and returned to school). These funds are limited, and will be distributed on a first come - first serve basis.

Please return this form to Assistant Math Department Chair: Ms. Coleman

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Student Name: _____

Teacher Name: _____

Date Requested: _____

I hereby authorize Spaulding High School to release the Free & Reduced Lunch status for my child to Elisha Coleman, the assistant math department chair, for the sole purpose of determining eligibility in receiving a scholarship calculator.

Parent Signature: _____

For Office Use Only

Math Department Chair: _____

Student has been determined eligible _____

Student has been determined NOT eligible _____

For Math Department Use

Calculator Number Assigned: _____

Date Assigned: _____