

**Inspirations & Ideas**  
Spaulding High School  
2021-2022 Course Syllabus

**Course Title: I & I**

**Department: Mathematics**

**Teacher Contact Information:**

Jan Zemba, [jzembshs@buusd.org](mailto:jzembshs@buusd.org)

**Department Chair Information:** Erin Carter; 476-4811 ext 2100; [ecartshs@buusd.org](mailto:ecartshs@buusd.org)

*This is a living document. Revision may occur as the course develops.*

**Course Description:**

Inspirations and Ideas (I&I) is a quarter long course centered around collaborative problem-based learning. Class will be a combination of individual work- some stemming from class goals and some from individual goals- and group work. In I & I, students should see growth in their work with integers, equations, order of operations, and graphing. They will practice representing and presenting their work in ways that strengthen their capacity for mathematical discourse. The goal for the course is for every student to demonstrate growth in mathematics.

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

**Materials: All materials needed except a calculator will be initially provided in class.**

**Replacement will be the responsibility of the student.**

- Calculator: Graphing calculator (TI-83) is recommended for high school, but a basic calculator is required.

**Replacement cost(s): Replacement of the textbook is \$10.**

**Practice:**

Students will be expected to work in small groups as well as individually. Some of each student's work will be determined by the student's own goals. These goals will be formed by the student in conjunction with conversations with the teacher. Most of the work will be set by the teacher and carried out by the students.

Students are expected to participate in class, work with their peers, and complete assignments and journaling work. Work will be a mix of hard copy, digital and projects. Regular Star 360 assessments will be part of the course and are required.

**Assessment/Reassessment:**

Students will be assessed in multiple ways (group tasks, portfolio work, conversations with the teacher, composition books, conversations with the teacher, written or online assessments). Students will be encouraged to reassess. They will need to develop a reassessment plan with the teacher.

## Classroom Expectations:

- Cell phones are to remain in your bag and on silent during class.
- You may not use your phone (or watch) as a calculator.
- When you are absent, you make a plan with the teacher to make up work.
- Come prepared to work
  - If you are not prepared to work talk with the teacher
- Students are expected to work with peers and teachers respectfully and productively.
- Every student is expected to make mistakes.
  - Mistakes can reveal valuable information about thinking.
  - We use our mistakes to move forward and learn.
  - We don't make fun of ourselves or others when mistakes happen.
- Extra Supports like math tutorial and tide pool, are available during school hours.
- Students will be expected to work in groups and complete assignments as a team.
- Students will be expected to share their ideas and work publicly and participate in classroom discussions.
- Students are expected to document their completed work.
  - This may be in the textbook, a portfolio, or other documentation
  - All documentation plans should be discussed with your teacher.
  - in a composition book or portfolio..
- Supports are in place for extra help if needed
  - Advisory
  - Math Tutorial (before or after school)
  - PAS system

## I & I Standards Checklist 21-22

For a standard to be Proficient, all indicators must be proficient.

To earn Proficient in the course all standards must be proficient.

To earn Partially Proficient, a majority of the standards must be proficient.

<b>Standards</b>		<b>Performance Indicators</b>	<b>Mark</b>
<b><i>Explaining and Recognizing Mathematical Thinking</i></b>	1	Explain your own mathematical thinking	
	2	Reflect or recognize someone else's thinking	
	3	Collaborate effectively and respectfully	
<b><i>Modelling and Representation of Mathematical Thinking</i></b>	1	Model mathematical reasoning	
	2	Interpret someone else's representation of mathematical thinking	
<b><i>Skills Growth: Individual Topics</i></b>	1	In collaboration with your teacher, create a plan for skills that you will work to improve	
	2	Carry out your plan and show your work and improvement	
<b><i>Skills Growth: Class Topics</i></b>	1	Complete work set to grow these skills	
	2	Show your work and improvement	

## 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.

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Good Choices:</p>	<div data-bbox="358 289 537 659" data-label="Image"> </div> <div data-bbox="383 680 529 714" data-label="Section-Header"> <h3 style="text-align: center;">TI-83 Plus</h3> </div> <div data-bbox="269 724 643 890" data-label="Text"> <p style="text-align: center;">The basic workhorse for a reason. Getting the job done for 20 years. \$75-\$100</p> </div>	<div data-bbox="792 300 954 651" data-label="Image"> </div> <div data-bbox="794 680 940 714" data-label="Section-Header"> <h3 style="text-align: center;">TI-84 Plus</h3> </div> <div data-bbox="683 724 1049 890" data-label="Text"> <p style="text-align: center;">Not much different from the 83 Plus. A little faster, but essentially the same. \$70-\$110</p> </div>	<div data-bbox="1187 289 1349 651" data-label="Image"> </div> <div data-bbox="1170 663 1365 697" data-label="Section-Header"> <h3 style="text-align: center;">TI-84 Plus CE</h3> </div> <div data-bbox="1089 703 1446 926" data-label="Text"> <p style="text-align: center;">Rechargeable batteries Different colors on graphs Better picture quality Super thin <u>Requires charging by cable!</u> \$99-\$150</p> </div>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Poor Choices:</p>	<p><b>Beware:</b> students would have to teach themselves to use it.</p> <p>Otherwise, a good calculator.</p> <div data-bbox="391 1163 521 1467" data-label="Image"> </div> <div data-bbox="358 1499 553 1533" data-label="Section-Header"> <h3 style="text-align: center;">TI-Nspire CX</h3> </div> <div data-bbox="274 1541 634 1688" data-label="Text"> <p style="text-align: center;">Rechargeable batteries Picture quality colors <u>Requires charging by cable!</u> \$125-\$150</p> </div>	<p><b>Beware:</b> This one has had some charger/battery issues in the past couple years, so I <b>don't recommend</b> it...plus it's more expensive...</p> <div data-bbox="792 1205 938 1520" data-label="Image"> </div> <div data-bbox="691 1551 1040 1625" data-label="Text"> <p style="text-align: center;">TI-84 Plus C Silver Edition \$112</p> </div>	<p><b>Beware: Others</b></p> <p>You can purchase Casios but <b>beware</b> that students would have to teach themselves to use it.</p> <div data-bbox="1179 1199 1357 1577" data-label="Image"> </div>

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: \_\_\_\_\_

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### For Office Use Only

Math Department Chair: \_\_\_\_\_

Student has been determined eligible \_\_\_\_\_

Student has been determined NOT eligible \_\_\_\_\_

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### For Math Department Use

Calculator Number Assigned: \_\_\_\_\_

Date Assigned: \_\_\_\_\_