### Concepts covered on campus
**August 2019 - March 13, 2020**

- 1st Amendment, Equal Protection

### Concepts presented during Distance Learning
**March 17 - May 22, 2020**


### Concepts for future focus/review in the 2020-2021 School Year


### Unit 2:
- Participating in Government - Citizenship, Making Decisions, Political Change

### Unit 3:
- Governmental Institutions and the Three Branches, Legislative, Executive, Judicial
# Math Pre-Algebra Concepts

## Concepts covered on campus

**August 2019 - March 13, 2020**

1. **Real #s and the Coordinate Plane**
   - Rational and irrational numbers
   - Cube roots
   - The Pythagorean Theorem
   - Distance in coordinate plane

2. **Solving Linear Equations**
   - Two and multi-step equations
   - Solving with variables on both sides of the equation
   - Types of solutions

3. **Introduction to Functions**
   - Graphs to events
   - Linear and nonlinear functions

4. **Graphing Functions**
   - Slope
   - Graphing/comparing functions
   - Writing rules

5. **Systems of Linear Equations**
   - Solve by graphing, elimination, and substitution
   - Systems in the Real World

6. **Exponents**
   - Scientific Notation w/operations
   - Exponents with all operations

7. **Geometry**
   - Angles and parallel lines
   - Congruent and similar figures
   - Angles and polygons

## Concepts presented during Distance Learning

**March 17 - May 22, 2020**

- **Transformations**
  - Translations, reflections, rotations, dilations
  - Symmetry, congruence, and similarity

- **Geometry and Measurement**
  - Volumes of prisms, cylinders, pyramids, and cones.
  - Volume and surface area of spheres

- **Data Analysis**
  - Scatter Plots
  - Two way tables

## Concepts to prepare/review for Algebra in the 2020-2021 School Year

- **Two step equations and inequalities**
- **Slope intercept (y=mx + b)**

- **Systems of linear equations**
- **Exponents w/all operations**

## Resources

- Khan Academy
- Google (just key in topic)

## Other

- IXL Diagnostic (system will give students questions and assess their level. It will then give questions designed to focus on areas that need strengthening)
<table>
<thead>
<tr>
<th>Concepts covered on campus</th>
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<tbody>
<tr>
<td><strong>August 2019 - March 13, 2020</strong></td>
<td><strong>March 17 - May 22, 2020</strong></td>
<td><strong>Research Study Skills:</strong> Students may want an opportunity to practice their research skills, The National History Day yearly project is perfect. Students can enter as individuals. This will provide a range of research and writing opportunities. It also looks good on a resume for college. The link below provides information. <strong>Communication in History:</strong> The Key to Understanding <strong>Writing Skills</strong> This is a series that helps hone the student's writing skills with focus on mechanics. <a href="https://www.summerskills.com/summer_skills_books/language_arts_books/">https://www.summerskills.com/summer_skills_books/language_arts_books/</a> <strong>Literature/Vocabulary Read!</strong> Reading increases all language arts skills. I encourage you to read a classic. You might want to visit a bookstore, like 2nd and Charles, they have a section of books you'll read for school, and pick one. (Perhaps one you know you'll read next year, and get a head start.)</td>
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</tbody>
</table>

**Vocabulary:**
Eighth graders completed 12 of 15 Vocabulary units. We explored, studied, and wrote with 180 new(ish) words this year.

**Literature**
We read and studied these books in addition to short stories, poetry, articles, and nonfiction pieces:
- Fahrenheit 451 by Ray Bradbury
- The Boy in the Striped Pajamas by John Boyne

We also did a special unit on the play Twelfth Night by William Shakespeare, we read an abridged version, discussed, and even acted in class. We ended the unit by watching a live performance of the play.

**English Grammar**

- **Subjects, Predicates, and Sentences**: Declarative, interrogative, exclamatory, imperative, simple, compound, fragments, run-on sentences; Simple and complete subjects and predicates.
- **Nouns**: Proper, common, singular, plural, collective, possessive, Contractions, concrete, abstract, appositives, collective
- **Verbs**: Action, direct, indirect, transitive, intransitive, predicate words, helping, linking; tenses, past, present, future, progressive, perfect;irregular verbs; verb forms;active/passive voice, Expressing future time
- **Pronouns**: Personal, possessive, indefinite, reflexive, intensive, interrogative, demonstrative; Antecedents
- **Adjectives/Adverbs**: Proper, comparative, superlative, demonstratives, intensifiers; avoiding double negatives

**During distance learning the 8th graders tackled Harper Lee’s classic novel To Kill a Mockingbird.**

- Students focused on characters, plot points, themes, figurative language, and vocabulary for every chapter of the book. (31)
- We explored the historical context of the book as well as its relevance today. Students were introduced to the theory of “Lynching Culture.”
- Students responded to critical thinking questions and were challenged with the difficult themes of racism, character, hypocrisy, the rule of law, judgement, and privilege through textual evidence was

Our next step would have been for students to pull an event of the time and research it, and write about their findings in an informative writing piece.
### Concepts covered on campus
**August 2019 - March 13, 2020**
- Scientific Method
- How to write a lab report
- Measurement
- Rocks and Minerals
- Layers of the earth
- Convection currents
- Plate tectonics
- Continental drift
- Earthquakes
- Volcanoes
- Water cycle
- Weather
- Ocean currents
- Earth’s atmosphere
- Climate
- Weathering and Erosion
- Fossils

### Concepts presented during Distance Learning
**March 17 - May 22, 2020**
- The moon
- The moon and the tides
- Solar system
- How a star is born
- Galaxies
- Space exploration

### Concepts for future focus/review in the 2020-2021 School Year
- Black holes
- Comets and asteroids

A great all around resource book to use for review of all middle school science is:

*Everything You Need to Ace Science in one Big Fat Notebook* edited by Michael Geisen

I got my copy from Amazon for 10 dollars. It covers all the subject areas and is a terrific resource.

https://www.amazon.com/Everything-You-Need-Science-Notebook/dp/0761160957/ref=redir_mobile_desktop?ie=UTF8&crid=rySJfwdi3mRW&dGtp1bw&hsa_c...