



What will my child be learning during the first quarter of school?

ENGLISH LANGUAGE & READING (ELAR) and ELAR KLEIN PREP

- Synthesizing information from a variety of genres with a focus on fiction, analysis of plot, character, and author's craft
- Practicing reading and writing about texts through dystopian fiction book clubs
- Planning, drafting and polishing a literary analysis on character and plot development
- Revising and editing with a focus on development of ideas, clarity, capitalization and correct usage of commonly confused words

G/T HUMANITIES

- Generate ideas, gather information, and manage evidence relevant to the topic and purpose.
- Identify and explain an author's argument.
- Formulate research topic and questions to explore ideas.
- Locate, evaluate, and select information from a variety of sources.

Questions to Ask Your Child

ELAR

- Tell me about what you're reading.
- What is dystopian fiction?
- What do you like about your story?
- What are you writing about?
- Tell me about the characters in your story.

ELAR (KLEIN PREP)

- Tell me about what you're reading.
- What is dystopian fiction?
- What is the essential question? How does your reading connect?
- Tell me about the socratic seminar.

How Can I Help My Child Learn at Home?

ELAR

- Set aside time for independent reading each day
- Talk to your student about the texts they read
- Practice reading, writing, and grammar in iXL

ELAR (KLEIN PREP)

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Questions to Ask Your Child

G/T HUMANITIES

- What ideas have you covered in class? Why do they matter?
- Ask:
 - Why might ___ matter to me?
 - Why might ___ matter to people around me?
 - Why might ___ matter to the world?

How Can I Help My Child Learn at Home?

G/T HUMANITIES

- Assist students with conducting research.
- Allow student time to read independently.
- Encourage students to challenge themselves with complex texts.
- Have students reflect on their thinking.





What will my child be learning during the first quarter of school?

MATH

- Compare and order rational and irrational from problem situations
- Model and Solve one-, two- and multi-step equations with variables on both sides
- Write equations from a word problem
- Write a word problem to match an equation
- Use Pythagorean theorem to find the missing side of a right triangle
- Identify a function from mappings, tables, ordered pairs, and graphs

ALGEBRA 1 & KP ALGEBRA 1

- Write, solve, and interpret an equation to model a real-world situation
- Solve multi-step inequalities
- Solve literal equations
- Identify relations and functions in tables, diagrams, and graphs
- Determine domain and range of functions
- Identify the translation on a parent function
- Write linear equations given a table, graph or verbal description
- Calculate rate of change in real-world problems

KP GEOMETRY

- Identify, describe, and name points, lines, planes, line segments, rays, angles, angle pairs and parts of circles using correct notation
- Develop and use geometric and algebraic arguments based on deductive reasoning
- Apply the Segment Addition Postulate, definition of midpoint, Angle Addition Postulate and definition of angle bisector to find lengths of segments and angles
- Use the distance formula to find lengths of segments and the midpoint formula to find coordinates of midpoints and endpoints
- Complete and write two column proofs about parallel lines using definitions, properties, postulates, and theorems as justifications

Questions to Ask Your Child

MATH

- How do you compare and order numbers when you have different types of numbers?
- How is finding a leg different from finding the hypotenuse when using the pythagorean theorem?

ALGEBRA 1 & KP ALGEBRA 1

- What is an inverse operation?
- What is the domain and range or a function?
- What is a function? How can you easily test for a function on a graph?

Questions to Ask Your Child

KP GEOMETRY

- What geometry definitions have you learned?
- How do you use the distance formula to find the midpoint?
- What is a two column proof?

How Can I Help My Child Learn at Home?

MATH, ALGEBRA 1 & KP ALGEBRA 1, AND GEOMETRY

- Ask your students what they are learning.
- Access the Klein Digital resources support math skills through your students dashboard.
- **IXL** - Skill-based program that allows students to practice skills they may have not mastered.
- **Fact track** - Practice facts online and track growth





What will my child be learning during the first quarter of school?

SCIENCE

- Model how elements are classified as elements, compounds, or mixtures
- Describe physical properties of cohesion, adhesion, and surface tension in water
- Investigate how mass is conserved and identify how atoms are involved in chemical reactions
- Investigate real life applications of Newton's Laws and calculate mass and acceleration.
- Compare the characteristics of waves and explain the use of electromagnetic waves in real world applications

BIOLOGY

- Relate the functions of different types of biomolecules to the structure and function of the cell
- Investigate the role of enzymes in cellular processes
- Explain how matter and energy are conserved during photosynthesis
- Identify components of DNA and changes in DNA, and evaluate the significance of the changes

Questions to Ask Your Child

SCIENCE

- How can models of elements, compounds, and mixtures help engineers remove salt from water?
- How can you use a chemical equation to model what happened to the mass of the system?
- How can Newton's laws of motion help engineers understand how to launch a rocket and land it safely?

Questions to Ask Your Child

BIOLOGY

- What are the functions of the different cell structures?
- What types of energy are found in cells and how is energy converted in the cells?
- What is the molecule of inheritance and what are its components?

How Can I Help My Child Learn at Home?

SCIENCE

- Work with the [roller coaster simulator](https://www.physicsclassroom.com/Physics-Interactives/Work-and-Energy/Roller-Coaster-Model/Roller-Coaster-Model-Interactive) and observe the different forces acting on the system. (<https://www.physicsclassroom.com/Physics-Interactives/Work-and-Energy/Roller-Coaster-Model/Roller-Coaster-Model-Interactive>)
- Research to see how waves move and how different waves in the electromagnetic spectrum are used in real world activities.

How Can I Help My Child Learn at Home?

BIOLOGY

- Create a menu of healthy foods that represent different types of biomolecules and their benefits.





8th Grade First Quarter

Family Curriculum Guide

What will my child be learning during the first quarter of school?

SOCIAL STUDIES (US HISTORY)

- Reasons for European exploration and colonization
- The political, economics, geographic and social characteristics of the 13 colonies
- The grievances of the colonists which lead to the Declaration of Independence
- Causes and effects of the American Revolution

Questions to Ask Your Child

SOCIAL STUDIES (US HISTORY)

- Why did European countries explore and colonize the present day United States?
- What were the causes & effects of the American Revolution that led to independence?
- What were the grievances of the colonists?

How Can I Help My Child Learn at Home?

SOCIAL STUDIES (US HISTORY)

- Ask your student to retell the story leading up to the revolution in their own words.

