



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

ENGLISH LANGUAGE & READING (ELAR)

- Compose multi-paragraph essays that include a thesis/claim, supporting evidence and explain
- Make a strong claim supported by reasons and evidence
- Read various texts and synthesize information
- Review reading, writing, and grammar skills from previous grading periods

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.

ENGLISH LANGUAGE AND READING (KLEIN PREP)

- Select topics of interest and generating student-selected questions for inquiry
- Read to investigate and understand an argument
- Evaluate sources and information before taking a position in an argument
- Synthesize information gathered to create new understanding
- Present using multiple modalities aside from the traditional approach
- Think about how problems/issues/conflicts can sometimes exist in stories and the real world

Questions to Ask Your Child

ELAR

- Tell me about the argument piece of writing you are working on.
- What made you write about the topic and why did you choose to take that position?
- Which sources are you using to gather your evidence?
- How do you synthesize the information you gather?
- What patterns do you see in the information?

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?

Questions to Ask Your Child

ELAR (KLEIN PREP)

- How do you gather evidence? Which sources do you rely on?
- How does the evidence help build your argument?
- Did you have to shift your position after reading more about your argument?
- What modalities are you considering for your presentation?
- What kinds of information do you need to complete your work?

How Can I Help My Child Learn at Home?

ELAR

- Have conversations about current events and help students see multiple perspectives.
- Know your child's goals or help them create goals, and guide them to work towards reaching those goals.
- Provide books and opportunities for your child to read self-selected text with increasing volume and frequency.
- Ask your child to share themes and ideas that stand out while they are reading.
- Discuss how the issues in the books they are reading relate to our current situation.

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.

How Can I Help My Child Learn at Home?

ELAR (KLEIN PREP)

- Listen intently when your child explains their work or thinking, and restate what they say before asking questions.
- Know your child's goals or help them create goals, and guide them to work towards reaching those goals. Discuss with your child their interests and how it can help them decide their pathway in high school.
- Encourage your child to ask questions and be critical about information they see and hear.
- Help build study skills such as annotation, note taking, and purposeful highlighting as well as ways to handle stress.
- Show and discuss appropriate use of technology for research.



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

MATH

- Understand geometry concepts including: finding lateral and total surface area prisms and cylinders; angle sum and exterior angles of triangles
- Understand and draw conclusions about parallel lines that are cut by a transversal; using equations to find missing angles.

ALGEBRA 1 & KP ALGEBRA 1

- Solve quadratic functions using a variety of ways and apply their learning to analyzing real world problems.
- Identify and write arithmetic and geometric sequences when the sequences are given in the function using recursive and explicit processes (KP Algebra only)
- Graph exponential functions and develop an understanding of asymptotes.
- Add, subtract, multiply, and divide radical and rational expressions

KP GEOMETRY

- Exploring two-dimensional figures as well as calculating surface and volume
- Calculating area and perimeter of polygons, regular polygons, circles, and composite shapes
- Find the sum of the measures of interior and exterior angles of regular polygons
- Calculate surface area and volume of spheres and dimension change of 3D shapes
- Calculate single event probability and conditional probability

Questions to Ask Your Child

MATH

- What is surface area?
- What is the difference between lateral and total surface area?

ALGEBRA 1 & KP ALGEBRA 1

- Can you tell me about a situation that would model a u-shaped curve?
- Can you create a list of numbers with a pattern? Explain the pattern.

Questions to Ask Your Child

KP GEOMETRY

- What is the difference between surface area and volume?
- Can you tell me about a situation where you would need to calculate volume? Surface area?

How Can I Help My Child Learn at Home?

MATH, ALGEBRA 1 & KP ALGEBRA 1, AND KP 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 fourth quarter of school?

SCIENCE

- Describe how variations of traits within a population lead to different adaptations
- Compare the characteristics of amplitude, frequency, and wavelength in different waves
- Explain how electromagnetic waves are used in real life applications
- Describe the carbon cycle

BIOLOGY

- Analyze how ecosystem stability is affected by disruptions to the flow and cycling of matter
- Explain the significance of the carbon and nitrogen cycles to ecosystem stability.
- Discuss the importance of various molecular technologies such as gel electrophoresis

Questions to Ask Your Child

SCIENCE

- How do variations in physical or behavioral traits help some individuals survive better in certain environments?
- How do we use electromagnetic waves in everyday technologies? X-rays?
- How does carbon move between the atmosphere, living organisms, oceans, and the ground?

Questions to Ask Your Child

BIOLOGY

- What happens to an ecosystem when a key nutrient or element, like nitrogen or phosphorus, is not long available in sufficient quantities?
- Why is the nitrogen cycle important for the production of proteins and nucleic acids in living organisms?
- What some practical applications of gel electrophoresis in forensics?

How Can I Help My Child Learn at Home?

SCIENCE

- Create waves with a rope or jump rope or rope. What is the impact when you change the speed?

How Can I Help My Child Learn at Home?

BIOLOGY

- Research the importance of gel electrophoresis and other molecular technologies.





8th Grade Fourth Quarter



Family Curriculum Guide

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

SOCIAL STUDIES (US HISTORY)

- Effects of Reconstruction
- Impact of the 13th, 14th, and 15th amendment
- Legislative reform programs
- Elections of African Americans of the South

Questions to Ask Your Child

SOCIAL STUDIES (US HISTORY)

- How did the Civil War impact the United States?
- What were the plans to reconstruct the South?
- What challenges did the U.S. face during Reconstruction?

How Can I Help My Child Learn at Home?

SOCIAL STUDIES (US HISTORY)

- Watch The "Rise and Fall of Reconstruction" Discuss the goals of Reconstruction. What were the reconstruction amendments? Did the amendments achieve their goal?

