



## 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.
- Locate, evaluate, and select information from a variety of sources.

### 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.

### 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
- 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?

### 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, 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 the effects of short- and long-term environmental changes on organisms and traits in subsequent populations
- Compare dependence and competition for biotic and abiotic factors on organisms and populations
- Human dependence on ocean systems and modification from human activities such as runoff, artificial reefs, and use of resources

### BIOLOGY

- Flow of matter and energy through trophic levels using food chains, food webs, ecological pyramids
- Carbon and Nitrogen cycles
- Impact of environmental change on ecosystem stability
- Interactions among systems that perform transport, reproduction and response in plants
- Interactions among systems that perform regulation, nutrient absorption, reproduction, and defense from injury or illness
- Levels of organization in biological systems and how they relate to whole system (atom, molecule, cell, tissue, organ, organ system, organism)

### Questions to Ask Your Child

#### SCIENCE

- What are the effects of short- and long-term environmental changes on organisms?
- Tell me about biotic and abiotic factors.
- Human dependence on ocean systems and modification from human activities such as runoff, artificial reefs, and use of resources

### Questions to Ask Your Child

#### BIOLOGY

- Why is variation important for species and ecosystem survival?
- How does energy flow through an ecosystem?
- What are some consequences for disrupting the carbon cycle? Nitrogen cycle?
- How do animal systems interact to perform the functions of life and protect them from illness?
- How do systems in a plant interact to respond to its environment?
- How can events occurring at one level of organization affect higher and lower levels of organization?

### How Can I Help My Child Learn at Home?

#### SCIENCE

- What are some environmental changes that have impacted your neighborhood?
- What organisms can you find competing for resources?

### How Can I Help My Child Learn at Home?

#### BIOLOGY

- Pick one item from your lunch and create a food chain that is at least 5 levels long.
- While you are out doing an activity over the weekend, describe which body systems are interacting during the activity.
- Observe your flowers in the morning, midday and end of day, what do you notice?





# 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?

