



# 7th Grade Fourth Quarter

# Family Curriculum Guide

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

### ENGLISH LANGUAGE & READING (ELAR)

- Practice the writing process through planning and drafting
- Compose multi-paragraph essays that provide support of the thesis
- Read various texts and synthesizing information gathered
- Review reading, writing, revising and editing skills

### ENGLISH LANGUAGE AND READING (KLEIN PREP)

- Select topics of interest and generate student-selected questions for inquiry
- Compose multi-paragraph essays that provide support of the thesis
- Synthesize information gathered to create new understanding
- Create a presentation to present his/her thinking about the process and product
- Review reading, writing, revising and editing skills

### 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 the piece of writing you are working on.
- Which reading strategy do you use the most?
- What kinds of books do you enjoy reading and why?

### ELAR (KLEIN PREP)

- What are you thinking as you gather evidence for your presentation?
- How do you gather evidence? Which sources do you rely on?
- What modalities are you considering for your presentation?
- What kinds of books/information do you need to complete your work?

## Questions to Ask Your Child

### G/T HUMANITIES

- What ideas have you covered in class?
- 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?

### ELAR

- Encourage Reading
- Discuss what they read
- Ask your child to share ideas, events, and characters that stand out while they are reading
- Practice iXL

### ELAR (KLEIN PREP)

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

## 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 fourth quarter of school?

### MATH

- Students will be studying geometry concepts including: circumference and area of circles; the area of composite figures; lateral and total surface area of rectangular prism, rectangular pyramid, triangular prism, and triangular pyramid by finding the area of the shapes net.

### ADVANCED MATH

- Find the volume of cylinders, cones, and spheres
- Determine total outcomes and favorable outcomes
- Interpret information from a chart, table, image, or diagram
- Calculate simple and compound probability
- Make predictions
- Compare two groups of data using dot plots or box plots by comparing their shapes, centers and spreads
- Draw conclusions and make inference based on data

### 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

## Questions to Ask Your Child

### MATH

- What is the difference between lateral and total surface area?
- How do you find the area of composite figures?
- What does it mean to have a quarter or semi-circle?

### ADVANCED MATH

- What is the base of a cylinder or cone? How do you find its area?
- How do you find theoretical probability?
- How is a dot plot different from a box plot?

## Questions to Ask Your Child

### 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.

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

### MATH, ADVANCED MATH, AND KP ALGEBRA 1

- 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 physical and chemical changes in matter
- Explain effects of human activity on groundwater, weathering, erosion, and deposition on the environment
- Explain the impact of catastrophic events on ecosystems
- Explain characteristics of objects in the solar system that allow life to exist (proximity to the Sun, presence of water, composition of the atmosphere)
- Explain accommodations and characteristic of the universe that enable manned space exploration

### SOCIAL STUDIES (TEXAS HISTORY)

- Expansion of the Texas frontier, effects of westward expansion on American Indians and Buffalo Soldiers
- Industrialization of Texas due to the oil industry
- Impact of the World Wars and the Great Depression
- Reform movements in Texas in the 19th and 20th-century
- Advances in scientific discoveries and technological innovations in Texas

### ADVANCED SCIENCE

- Radiant energy from the Sun is transformed into chemical energy through the process of photosynthesis
- Energy flows through living systems (food chain, food web, energy pyramid)

## Questions to Ask Your Child

### SCIENCE

- How are physical and chemical changes in matter different?
- What are catastrophic impacts on the ecosystem caused by floods? Hurricanes? Tornados?
- What evidence indicates that weathering has affected ecoregions? Erosion? Deposition?
- What characteristics of our solar system support the existence of life?
- What key life systems need to be built into a spacesuit?

### ADVANCED SCIENCE

- Why is the flow of energy a key component in a food web?
- How is the Sun transformed into chemical energy?

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

### SCIENCE

- Look at the "Then-and-Now" images and talk about the impacts on the ecosystem from Hurricane Harvey. There are other sites with additional images based on the Google search.
- Compare and contrast the TX Soil map and the TX vegetation map. What trends do you see?

### ADVANCED SCIENCE

- Read about the types of ecosystems in Texas. Pick one of the following food webs and discuss the flow of energy. forest food web, prairie food web, desert food web, wetlands food web

## Questions to Ask Your Child

### SOCIAL STUDIES (TEXAS HISTORY)

- What was the impact of the expansion of Texas?
- How was Texas affected by the development of the oil industry?
- How did industries in Texas make an impact on the Great Depression and World Wars?
- Who are significant Texans who have contributed to the Civil Rights Movement in Texas?

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

### SOCIAL STUDIES (TEXAS HISTORY)

- Have a conversation with your child about the oil industry in Texas and the impact it has had on the state.
- Ask your child to research a Texas leader in science and technology and explain their contribution.
- Encourage your child to research the development of Texas in the areas of aerospace, energy, computer, medical, and agriculture.

