

Roan [REDACTED]
Age 10 - 11
Standard Grade Level: 5th

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Language Arts

Reading

Roan reads independently and daily for at least an hour. He also completed two literature studies as shown below:

1. The Wizard of Oz by L. Frank Baum → Literature Study
2. Only You Can Save Mankind by Terry Pratchett → Literature Study
3. Darke by Sage, Angie
4. Magyk by Sage, Angie
5. The King's Dragon by Chantler, Scott
6. The Ring Of Solomon : Bartimaeus by Stroud, Jonathan
7. Roll for Initiative by Formato, Jaime
8. The Falcon's Feather by Trueit, Trudi Strain
9. The Last Fallen Moon by Kim, Graci
10. Death Weavers by Mull, Brandon

CONCEPTS OF COMPREHENSION: THE WIZARD OF OZ 5TH GRADE UNIT

Student Packet

Name: _____ Date: 11-29-22

Comprehension Questions
Chapter 1: "The Cyclone" — Chapter 6: "The Cowardly Lion"

Directions: Read the questions and answer them in complete sentences or choose the correct answer. Use the book to help you, if needed. Use details from the text to support your answer. Record the Concept of Comprehension on the line next to each question.

1. Compare and contrast Kansas with the land of the Munchkins.
Kansas is dry and dreary but munchkinland is light and colorful.

2. What did the author mean when he said, "Dorothy felt as if she were going up in a balloon"? (p. 3) What type of figurative language is this?
a. Dorothy was dreaming that she was in a balloon. Simile
b. Dorothy was dreaming that she was in a balloon. Metaphor
c. The cyclone made the house go upward as if it were a balloon. Simile
d. The cyclone made the house go upward as if it were a balloon. Metaphor

3. What is Dorothy's problem? How does she plan on solving her problem?
her problem is getting home. she plans on solving it by going to the wizard

4. What caused the Wicked Witch of the East to die?
a. The cyclone.
b. Dorothy's house fell on her.
c. Dorothy took her shoes away.
d. The power of the Good Witch of the North.

5. Describe two elements from the text that show that the book is a fantasy.
1. munchkins are magical creatures.
2. oz is a magical place

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CONCEPTS OF COMPREHENSION: THE WIZARD OF OZ 5TH GRADE UNIT

Student Packet

Lesson 2 Independent Practice: The Effects of Characters' Decisions
Worksheet

Name: _____ Date: 12-12-22

Directions: Using the group's decision to kill the Wicked Witch of the West as the cause, list the direct effects of this decision throughout the novel.

Decision: Dorothy decides to kill the Wicked Witch

Effect: they go to the land of winkie

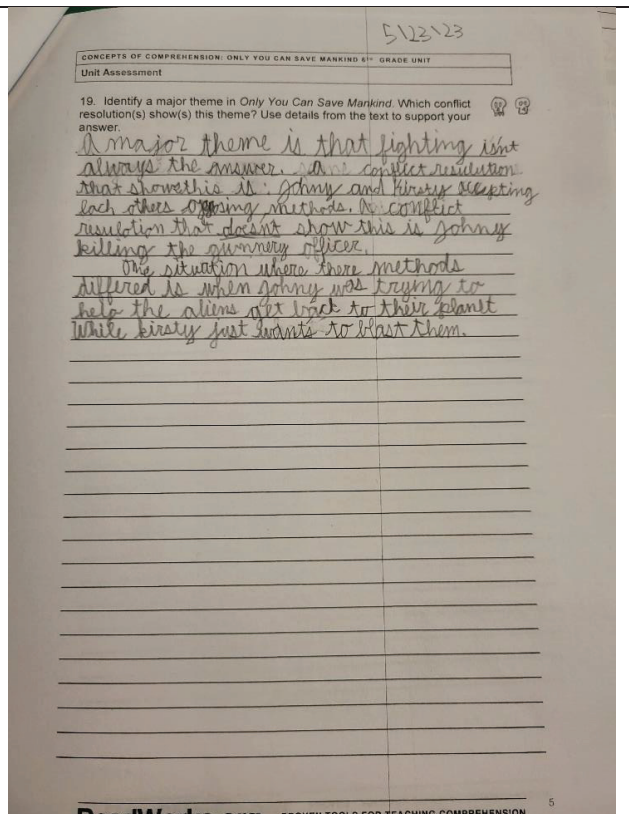
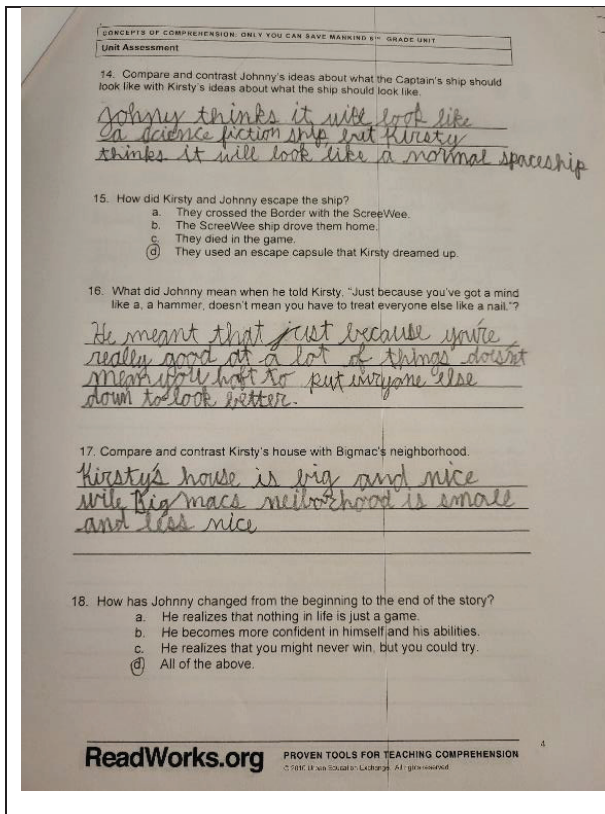
Effect: the witch uses all her mirrors and all fall

Effect: the witch calls on the Winked monkeys who

Effect: the witch steals dorothy's shoe and dorothy dumps water on her causing her to melt

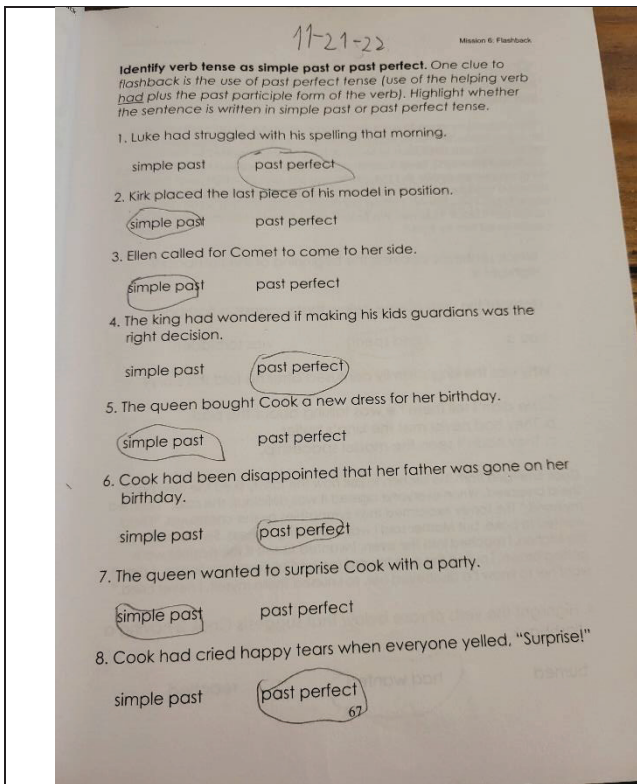
In 4-5 sentences, summarize the effects of the group's decision:
they go to the land of winkie and the witch tries to stop them by calling on her mirrors all fell except the Winked monkeys who bring dorothy and the lion to her palace. the witch steals dorothy's shoe, and dorothy dump water on her melting her

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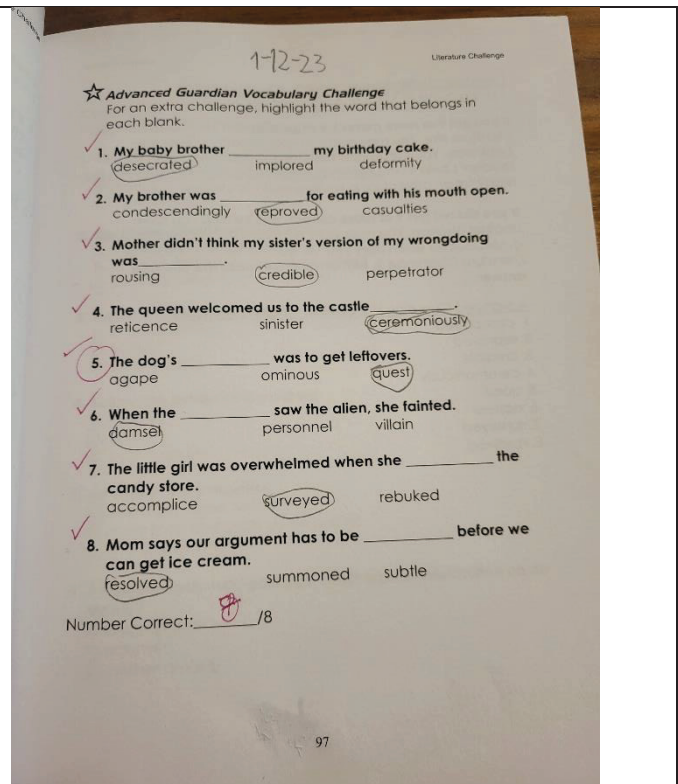


Grammar, Spelling, Punctuation, Writing etc.

Roan worked through the Grammar Galaxy Level Red Star. He also completed a typing course.



11/21/22



01/12/23

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★ Step 3: Write a Participle
Write a participle in the blank that makes sense. Use a form of the verb in parentheses.

- Most of the men had been playing soccer all their lives. (play)
- A well defended goal is a goalie's focus. (defend)
- The penalized player hung his head in shame. (penalize)
- dribbling is one of the first skills players develop. (dribble)
- putting the ball is only allowed by goalies. (punt)
- tackling means to take the ball away from the opponent with the feet. (tackle)
- Fans have been waiting for hours. (wait)
- A shooting player must have his foot planted firmly. (shoot)

Vocabulary Victory! Do you remember what these words mean? Check Step 1 if you need a reminder.

tersely	"Yes," he said tersely .
contained	I've called in extra Grammar Patrol to keep it contained .
aerial	Screen immediately responded with an aerial view of a large gathering of words.

207

Dance Mat Typing

Top Typist Certificate

Congratulations!
You have finished level 4

You can type 13 words per minute
with 74% accuracy

You can now type:
a s d f g h j k l ; e i r u t y w o q p v m b n c , x z ' / .
and capital letters

BBC bbc.co.uk/schools/typing

05/11/23

Latin

Roan continued Latin this year and completed learning all four declensions.

Date: 9-8-22

Latin Exercises 49

New Vocabulary Word: arō = I plow, I do plow, I am plowing

Translate into English

- ✓ Terram arō.
I am plowing the earth
- ✓ Agricolae terram arant.
They are farmers plowing the earth
- ✓ Puella terram saepe arat.
The girl often plows the soil
- ✓ Terram nunquam aris.
You ~~often~~ never plow the soil
- ✓ Nautae scaphas amant.
The sailors love boats
- ✓ Sumus agricolae sed scaphas amamus.
We are farmers but we love boats
- ✓ Poeta nōn es sed tabulās saepe portās.
You are a poet but you don't often carry writing tablets

Translate into Latin

- ✓ Y'all are farmers but y'all never plow the soil.
estis agricolae sed humānum arātis terram
- ✓ They are sailors but we are poets.
sunt nautae sed sumus poetae
- ✓ The poets always carry writing tablets.
poetae semper portant tabulas

09/08/22

Date: 11-10-22

Latin Exercises 57

New Vocabulary Word: circum = around

PRONUNCIATION TIP: In classical pronunciation, each c in circum sounds like the k in kitchen. In ecclesiastical pronunciation, the first c will sound like the ch in cheese, and the second one will sound like the k in kitchen.

Circum is another preposition. Like ad, circum takes the accusative (direct object) case.

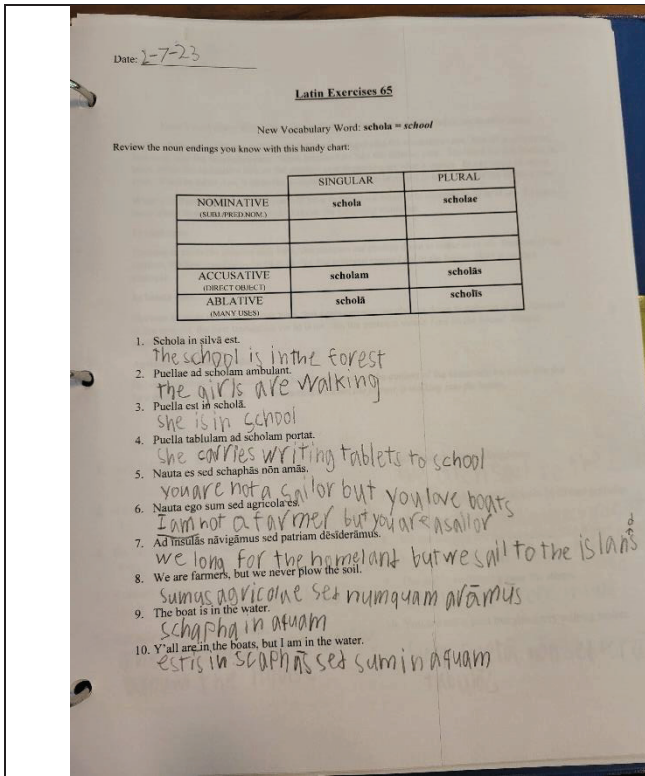
Translate into English

- ✓ Circum insulam navigō.
I sail around the island
- ✓ Circum silvam saepe ambulāmus.
We often walk around the forest
- ✓ Nautae circum insulam semper navigant.
The sailors always sail around the island
- ✓ Ad casam ambulāmus.
We are walking toward the house
- ✓ Nōn sum agricola sed terram saepe arō.
I am a farmer but I ~~don't~~ often plow the soil
- ✓ Nōn es poeta sed tabulās semper portās.
You are not a poet but you always carry a writing tablet
- ✓ Et stellās et lunam saepe spectās.
You often watch both the stars and the moon

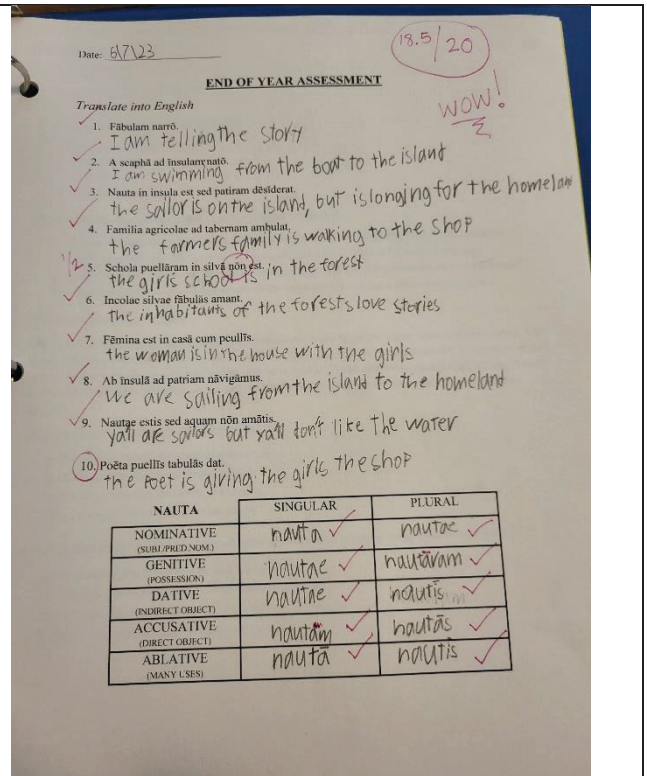
Translate into Latin

- ✓ The sailor loves boats.
nauta amat scaphas
- ✓ We are not farmers, but we love the soil.
sunt non agricolae sed amamus terram
- ✓ I love both the seashore and the forest.
amo et actam et silvam

11/10/22



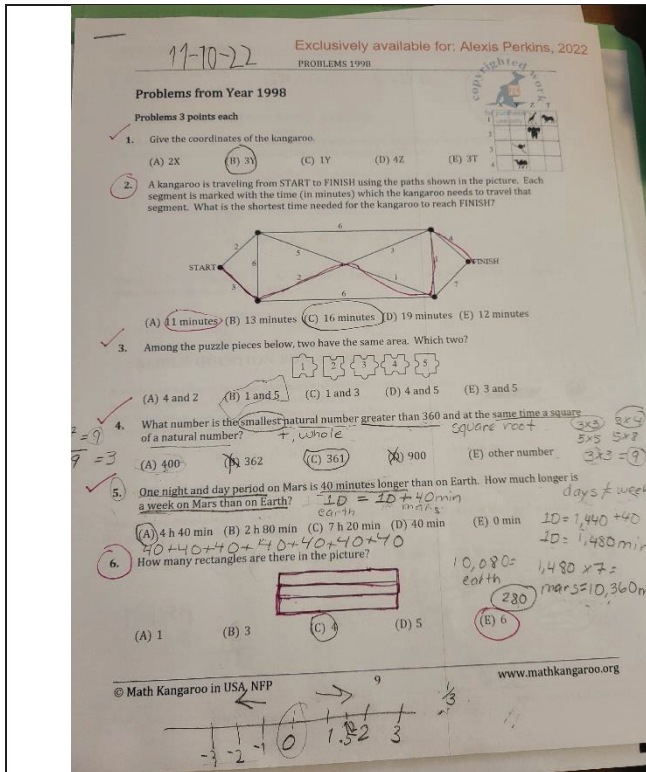
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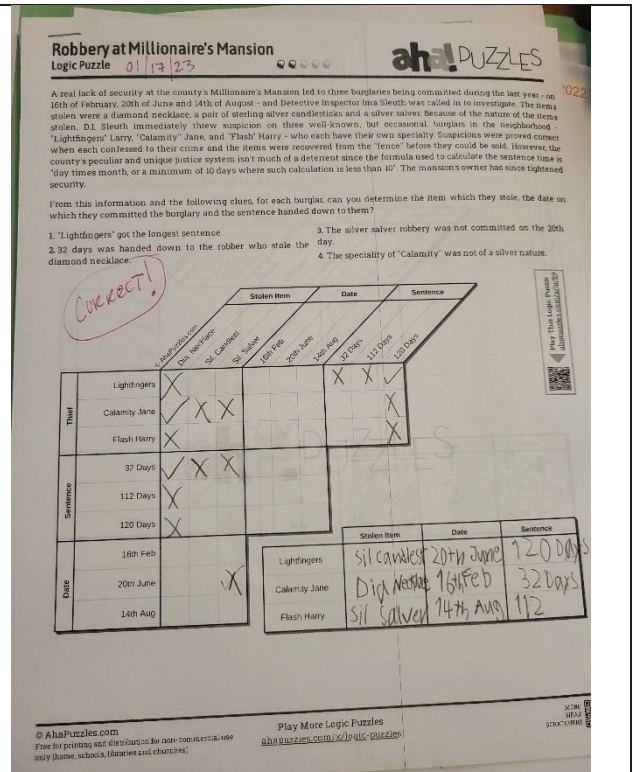
06/07/23

Mathematics

Roan finished Beast Academy level 3B this year and worked through half of level 3C. He also worked on logic puzzles and brain teaser math problems.



11/10/22: Kangaroo Math (International Math Competition)



01/17/23: Logic Puzzles

Calamitous Clod has switched the numbers in these multiplication problems around!

EXAMPLE Rearrange the numbers to make them easier to multiply. Then, find the product.

$$\begin{array}{|c|c|c|c|} \hline 2 & \times & 2 & \times & 5 & \times & 5 \\ \hline \end{array}$$

We pair up these numbers to make them easier to multiply:

$$\begin{array}{|c|c|c|c|} \hline 2 & \times & 2 & \times & 5 & \times & 5 \\ \hline \end{array}$$

$$2 \times 2 \times 5 \times 5 = (2 \times 5) \times (2 \times 5) = 10 \times 10 = 100$$

PRACTICE Rearrange the numbers to make them easier to multiply. Then, find the product.

104. $\begin{array}{|c|c|c|c|c|c|} \hline 2 & \times & 2 & \times & 2 & \times & 5 & \times & 5 & \times & 5 \\ \hline \end{array}$ 104. 1,000

105. $\begin{array}{|c|c|c|c|c|c|} \hline 5 & \times & 9 & \times & 2 & \times & 2 & \times & 5 \\ \hline \end{array}$ 105. 900

106. $\begin{array}{|c|c|c|c|c|c|} \hline 5 & \times & 5 & \times & 2 & \times & 8 & \times & 7 \\ \hline \end{array}$ 106. 2,800

107. $\begin{array}{|c|c|c|c|c|c|c|c|c|c|} \hline 2 & \times & 4 & \times & 5 & \times & 2 & \times & 6 & \times & 2 & \times & 5 & \times & 5 \\ \hline \end{array}$ 107. 24,000

30 Guide Pages: 33-36 Beast Academy Practice 36

11/15/22

Name: _____ Score: _____
Teacher: 60/60 Date: 1-23-23

3 Minute Drill

$\begin{array}{r} 4 \\ \times 7 \\ \hline 28 \end{array}$	$\begin{array}{r} 10 \\ \times 11 \\ \hline 110 \end{array}$	$\begin{array}{r} 8 \\ \times 11 \\ \hline 88 \end{array}$	$\begin{array}{r} 12 \\ \times 6 \\ \hline 72 \end{array}$	$\begin{array}{r} 9 \\ \times 2 \\ \hline 18 \end{array}$	$\begin{array}{r} 8 \\ \times 7 \\ \hline 56 \end{array}$
$\begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array}$	$\begin{array}{r} 11 \\ \times 8 \\ \hline 88 \end{array}$	$\begin{array}{r} 2 \\ \times 5 \\ \hline 10 \end{array}$	$\begin{array}{r} 2 \\ \times 10 \\ \hline 20 \end{array}$	$\begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array}$	$\begin{array}{r} 6 \\ \times 10 \\ \hline 60 \end{array}$
$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$	$\begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array}$	$\begin{array}{r} 12 \\ \times 2 \\ \hline 24 \end{array}$	$\begin{array}{r} 12 \\ \times 9 \\ \hline 108 \end{array}$	$\begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array}$	$\begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}$
$\begin{array}{r} 6 \\ \times 2 \\ \hline 12 \end{array}$	$\begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array}$	$\begin{array}{r} 8 \\ \times 10 \\ \hline 80 \end{array}$	$\begin{array}{r} 12 \\ \times 10 \\ \hline 120 \end{array}$	$\begin{array}{r} 5 \\ \times 12 \\ \hline 60 \end{array}$	$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$
$\begin{array}{r} 3 \\ \times 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array}$	$\begin{array}{r} 8 \\ \times 2 \\ \hline 16 \end{array}$	$\begin{array}{r} 6 \\ \times 5 \\ \hline 30 \end{array}$	$\begin{array}{r} 11 \\ \times 12 \\ \hline 132 \end{array}$	$\begin{array}{r} 4 \\ \times 12 \\ \hline 48 \end{array}$
$\begin{array}{r} 3 \\ \times 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$	$\begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array}$	$\begin{array}{r} 8 \\ \times 3 \\ \hline 24 \end{array}$	$\begin{array}{r} 8 \\ \times 5 \\ \hline 40 \end{array}$	$\begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array}$
$\begin{array}{r} 4 \\ \times 6 \\ \hline 24 \end{array}$	$\begin{array}{r} 11 \\ \times 10 \\ \hline 110 \end{array}$	$\begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array}$	$\begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array}$	$\begin{array}{r} 10 \\ \times 10 \\ \hline 100 \end{array}$	$\begin{array}{r} 7 \\ \times 7 \\ \hline 49 \end{array}$
$\begin{array}{r} 6 \\ \times 12 \\ \hline 72 \end{array}$	$\begin{array}{r} 11 \\ \times 11 \\ \hline 121 \end{array}$	$\begin{array}{r} 10 \\ \times 9 \\ \hline 90 \end{array}$	$\begin{array}{r} 8 \\ \times 12 \\ \hline 96 \end{array}$	$\begin{array}{r} 7 \\ \times 9 \\ \hline 63 \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline 27 \end{array}$
$\begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array}$	$\begin{array}{r} 12 \\ \times 3 \\ \hline 36 \end{array}$	$\begin{array}{r} 8 \\ \times 8 \\ \hline 64 \end{array}$	$\begin{array}{r} 11 \\ \times 5 \\ \hline 55 \end{array}$	$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$	$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$
$\begin{array}{r} 10 \\ \times 4 \\ \hline 40 \end{array}$	$\begin{array}{r} 9 \\ \times 6 \\ \hline 54 \end{array}$	$\begin{array}{r} 3 \\ \times 10 \\ \hline 30 \end{array}$	$\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 11 \\ \times 4 \\ \hline 44 \end{array}$	$\begin{array}{r} 7 \\ \times 2 \\ \hline 14 \end{array}$

Math-Aids.Com

01/23/23

Simplifying Expressions

PRACTICE Simplify each expression below.

30. $d+11+14$ 30. $d+25$

31. $17+p+2$ 31. $19+p$

32. $13-12+f$ 32. $1+f$

33. $5+k-k$ 33. 5

34. $j-20+20$ 34. j

35. $w+20-w$ 35. 20

36. $13+g-13-8$ 36. -8

37. $1+1-1+1-1-1$ 37. -1

6/10/23 Guide Pages: 17-22 11

05/10/23

Long Division

78. $8 \overline{) 99}$ quotient = 12 remainder = 3

79. $7 \overline{) 98}$ quotient = 14 remainder = 0

80. $11 \overline{) 13}$ quotient = 1 remainder = 2

81. $91 \overline{) 95}$ quotient = 1 remainder = 4

82. $9 \overline{) 5}$ quotient = 0 remainder = 5

83. $6 \overline{) 125}$ quotient = 20 remainder = 5

84. $14 \overline{) 86}$ quotient = 6 remainder = 2

85. $8 \overline{) 2507}$ quotient = 313 remainder = 3

86. When Winnie divides n by 8, the quotient is 15 and the remainder is 6. What is n ? $8 \overline{) 156}$ 86. 126


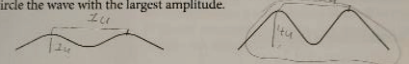
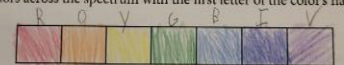
87. When Lizzie divides 77 by m , the quotient is 9 and the remainder is 5. What is m ? $9 \overline{) 77}$ 87. 8

Beast Academy Practice 30

06/16/23

Roan worked through the REAL SCIENCE Astronomy curriculum. He will continue this next year.

Learn Introduction to Astronomy
Chapter 1: Show What You Know

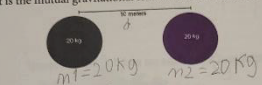
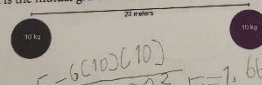
- The line below has been drawn in a series of waves. Label one of the wavelengths.

- Circle the wave with the largest amplitude.

 The wavelength is the same for these two waves. What does it mean that the amplitude is different?
because they come from different energy sources
- Below is a series of boxes meant to represent the visible part of the electromagnetic spectrum. Color this in using the correct color pattern. Label the colors across the spectrum with the first letter of the color's name.

 R O Y G B I V
- Earth is a planet in the Milky Way Galaxy. At the center of the Milky Way Galaxy is a supermassive black hole. This black hole is 28,000 light-years away from Earth. How long would it take to travel to this black hole traveling at the speed of light? For the mathematically inclined: How many km and miles away is this black hole? The speed of light is 300,000 km/sec, 186,282.4 miles per second. (Hint for solving: You will need to find the number of seconds)

Chapter 3: Show What You Know (continued)

Challenge: Gravity Math


$F = \frac{Gm_1m_2}{d^2}$

F = the gravitational force
 G = the gravitational constant = $6.67 \times 10^{-11} \frac{N \cdot m^2}{kg^2}$
 m_1 = mass of one of the objects
 m_2 = mass of the other object
 d = distance between the two objects

- What is the mutual gravitational force of attraction of these two objects?

 $m_1 = 20 \text{ kg}$ $m_2 = 20 \text{ kg}$
 $F = \frac{(6.67 \times 10^{-11})(20)(20)}{(0.2)^2}$
 $F = 2.668 \times 10^{-10}$
- What is the mutual gravitational force of attraction of these two objects?

 $m_1 = 10 \text{ kg}$ $m_2 = 10 \text{ kg}$
 $F = \frac{(6.67 \times 10^{-11})(10)(10)}{(0.2)^2}$
 $F = 1.6675 \times 10^{-11}$

Compare the two answers above and explain how and why the force of gravity varies.
it is stronger when objects are larger and closer together

Chapter 4: Show What You Know (continued)

- An absorption spectrum is like a puzzle. Use the spectrums from page 89 to answer this. Based on the lines present in the combined spectrum below, which two elements are represented on this absorption spectrum: carbon and helium, helium and hydrogen, or carbon and hydrogen?

Carbon and Hydrogen
- Refer to the H-R Diagram on page 91 to answer the next two questions.
- What is the approximate range of surface temperature of a white dwarf? How about a red giant?
 WD: 10,000
 RG: 3,000
- Does the color, temperature, and/or luminosity vary for red giants and white dwarfs compared to the red and white stars on the main sequence?

C	Yes	Yes
T	No	No
L	No	No

they have similar color and temperature but different luminosity

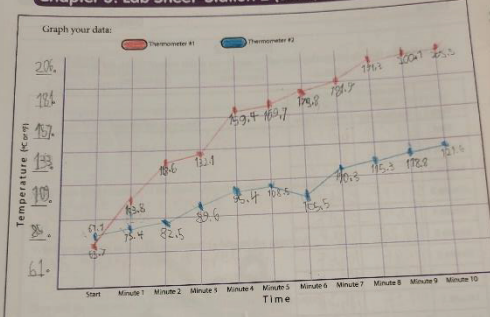
Briefly answer the following four questions concerning how the properties of wavelength and frequency distinguish stars from one another.

- How does the amplitude of wavelengths give more information about a star's luminosity?
the more luminous stars have greater amplitude

04/11/23

Watching Heat Move
Chapter 5: Lab Sheet Station 2 (cont.)

Graph your data:



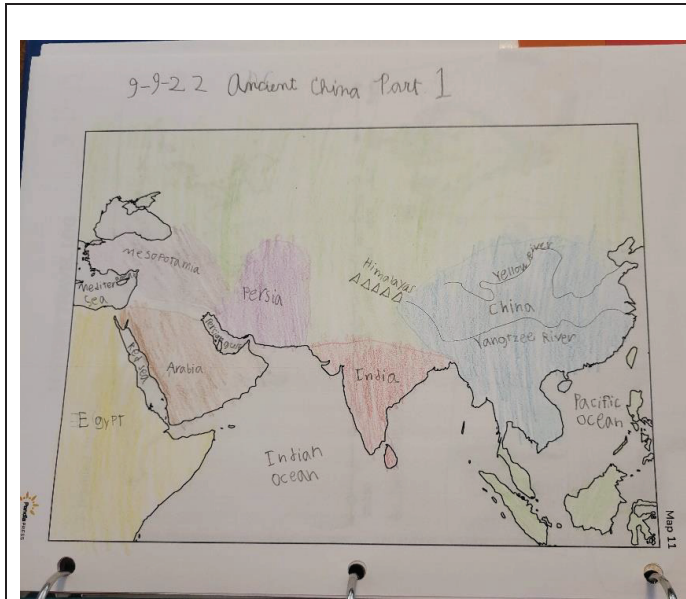
Conclusions:
 What type of heat transfer did you observe at Station 2?
Conduction
 How did the heat move through the aluminum foil?
The burner heated it through touch
 Explain your observations about changes in the temperature difference at each thermometer.
Thermometer 2 was farther away so it didn't heat up
 What happened to the heat going from thermometer one to thermometer two? In other words, why didn't the temperature at both thermometers go up by the same amount?
either some of the heat is dissipated or it just took longer for the heat to reach the foil
 Give an example from astronomy or earth science of how this type of heat transfer occurs naturally.
the sun transfers heat to rocks through radiation and the rocks transfer heat to your hand through conduction

05/18/23

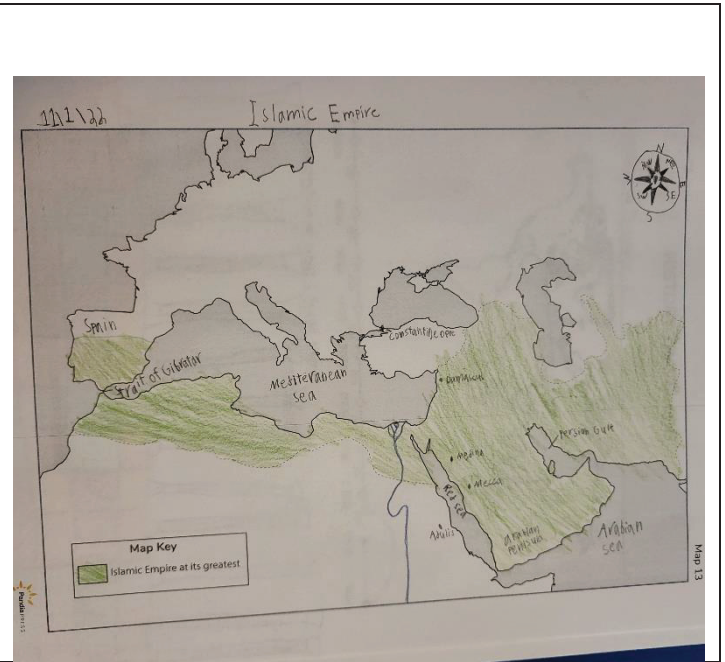
History

Ancient and Medieval History

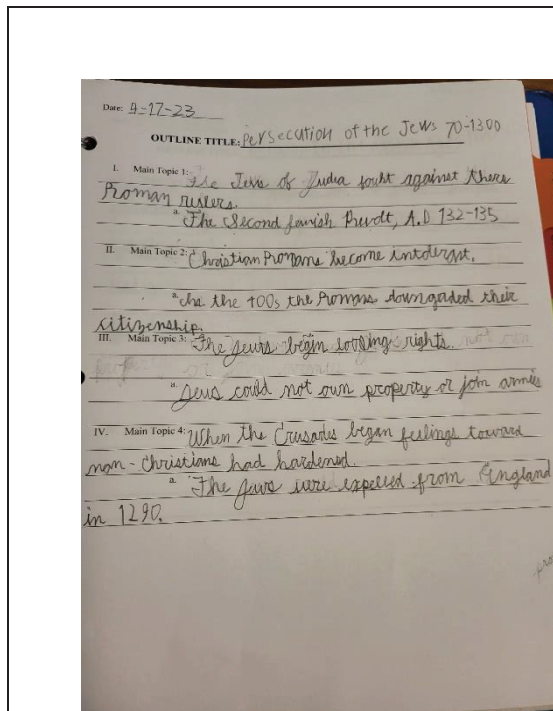
We finished the REAL History curriculum for Ancient World history and continued with the REAL History for the Medieval World this year. We started with Ancient China and ended with the Magyars and Bohemians. We also completed a large Medieval Monastic Farm project.



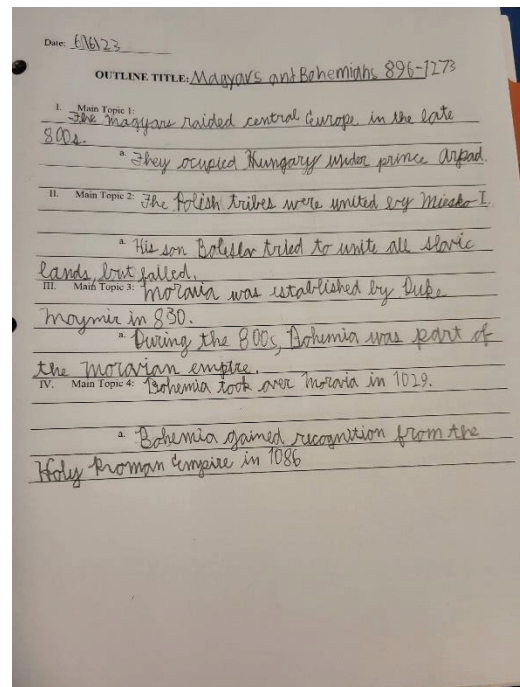
09/09/22



11/01/22



04/17/23



06/16/23

A. The Carolingians 611-23
100AD

The Franks: were a Germanic people living on the northern frontier of the Roman Empire and were eventually successors to the old Roman Empires.

Clouis: Was the King of the Franks and was born in a 6th in fourth Roman Empire and died in 511 aged 43. He lived in present-day Belgium and conquered many places eventually creating what is now France.

Charles Martel: Was born in Austrasia on 13 August 676 and died in Quierzy, Frankish Empire aged 65 and lived in Belgium. He founded the Carolingian dynasty.

Roland: His birth date is unknown, but he died in 778 August 15. He was famous for his work DuRenal.

Peppin: Was born in 714 and died in 24 September 768 aged 54 and lived in the Kingdom of the Franks. He did most of the work to make the Frankish empire so powerful.

Charlemagne: Was born in 742 AD in Aachen and 814 28 January aged 66. He lived in Aachen, Bavaria and in 800 he became the first Holy Roman Emperor.

06/01/23

518123

Jewish Persecution

Semite: a member of any of various ancient and modern peoples originating in south-western Asia, including the Akkadians, Canaanites, Phoenicians, Hebrews, and Arabs.

Anti-Semitism: hostility to, prejudice towards, or discrimination against Jews.

Torah: the first five books of the Hebrew bible.

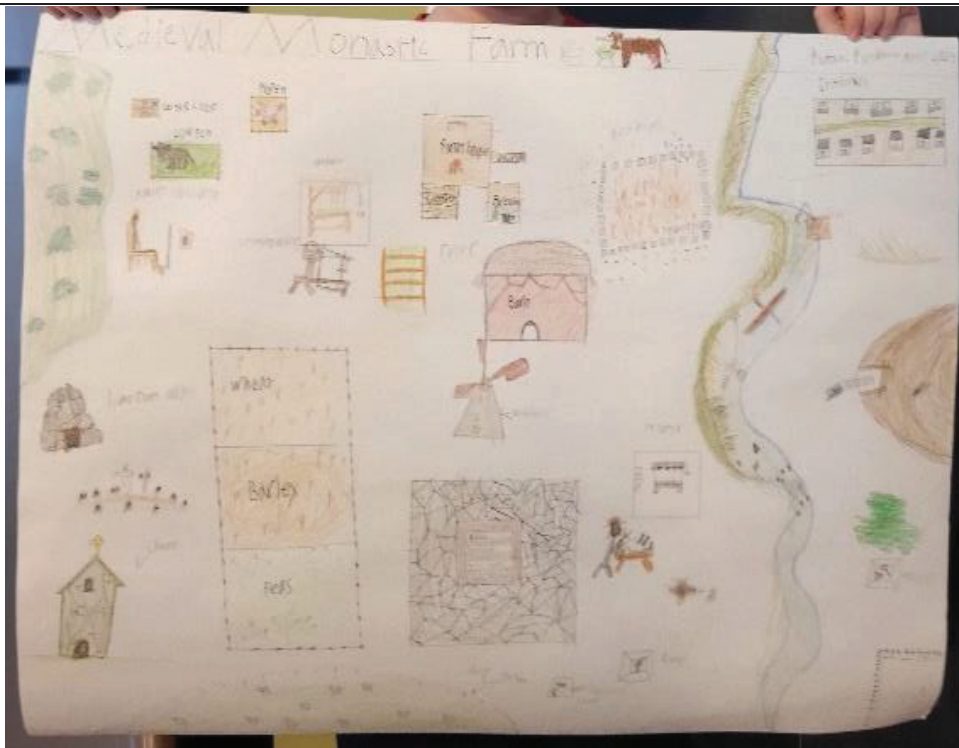
Yiddish: a West Germanic language spoken by the Ashkenazi Jews.

Rabbi: a spiritual leader or religious teacher in Judaism.

Diaspora: a population that is scattered across regions which are separate from its geographical place of origin.

Diapora

05/18/23



April 2023: Watched "Tudor Monastery Farm" 6 hour documentary. Took notes on various features of functions of a medieval monastery farm then created his farm based on his notes.

Art



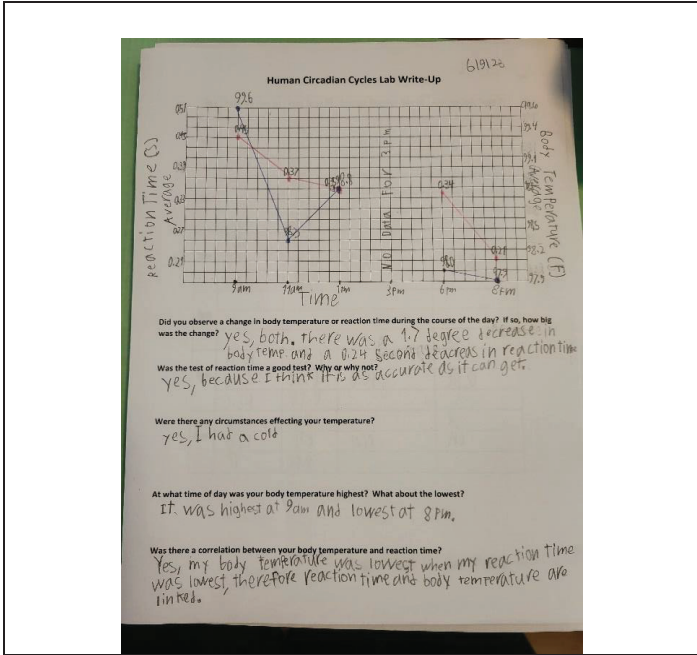
Physical Education and Comprehensive Health Education

Physical Education



Archery lessons

Roan ran an experiment on Human Circadian rhythms and reactions times.



Human Circadian Cycles

Circadian rhythm: 5/11/23
 A daily cycle of biological activity based on a 24hr period and influenced by regular variations in the environment, such as the alternation of night and day.

core body temperature:
 The normal core body temperature range can vary from individual to individual and can also be influenced by age, activity, and time of day: 36.16 (95F) to 37.2 (99F)

Hypothalamus:
 A part of your brain that acts as a manager and coordinates many functions of your body, including temperature and nervous system.

Nerve conduction velocity: 5/11/23
 A nerve conduction velocity (NCV) test measures how fast an electrical impulse moves through your nerve.

Reaction time:
 the study of processing speed on cognitive tasks.