### 7th GRADE NTI PACKET #16-20

### Dear 7th Grade Maroon Parents & Guardians/ Students,

We can't thank you enough for the support, encouragement, and communication from all parents/guardians and students. We, as teachers, can't express how much we miss our students and how we are here for you all whenever you need us. Please feel free to reach out as we charter new territory with NTI Packets #16-20.

### NTI PACKETS #16-20

These NTI packets will be a little different because EVERY packet is a little bit of each subject. Every NTI Day will have math, language arts, science, and social studies. There will be new content for every subject. We are providing students with notes and information inside of the NTI Pcaket. We are also providing great technology resources students can use to assist with their learning of new content.

### **TEACHER COMMUNICATION- MAROON**

We want to highly encourage email during NTI Days. Students can use their google log in and log into google mail to communicate with their teachers.

- Language Arts/ Miranda Johnson- miranda.johnson@harrison.kyschools.us
- Math/ Melinda Persinger- melinda.persinger@harrison.kyschools.us
- Science/ Jaime Chapman- jaime.chapman@harrison.kyschools.us
- Social Studies/ Whitney Criswell- whitney.criswell@harrison.kyschools.us
- Special Education/Taylor Hill- <u>taylor.hill@harrison.kyschools.us</u>

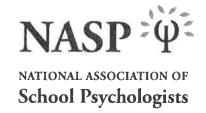
Students can also use the Remind 101 App to communicate to teachers. You can send a text to 81010 and text "@7mharrison" to be added to the Remind 101 reminders. If you download the free app, you can send text messages to teachers for communication. You can also call Harrison County Middle School at (859) 234-7124

### **TEACHER COMMUNICATION- GOLD**

We want to highly encourage email during NTI Days. Students can use their google log in and log into google mail to communicate with their teachers. walker

- Language Arts/ Carla Fuller- <u>carla fuller@harrison.kyschools.us</u>
- Math/ Roni Long- roni.long@harrison.kyschools.us
- Science/ Jean Jones- jean.jones@harrison.kyschools.us
- Social Studies/ Jenny Hyatt- jenny.hyatt@harrison.kyschools.us
- Special Education/Carline Ford- <u>carline.ford@harrison.kyschools.us</u>

"WE MISS YOU!" - From: ALL 7th Grade Teachers





February 29, 2020

### Talking to Children About COVID-19 (Coronavirus) A Parent Resource

A new type of coronavirus, abbreviated COVID-19, is causing an outbreak of respiratory (lung) disease. It was first detected in China and has now been detected internationally. While the immediate health risk in the United States is low, it is important to plan for any possible outbreaks if the risk level increases in the future.

Concern over this new virus can make children and families anxious. While we don't know where and to what extent the disease may spread here in the United States, we do know that it is contagious, that the severity of illness can vary from individual to individual, and that there are steps we can take to prevent the spread of infection. Acknowledging some level of concern, without panicking, is appropriate and can result in taking actions that reduce the risk of illness. Helping children cope with anxiety requires providing accurate prevention information and facts without causing undue alarm.

It is very important to remember that children look to adults for guidance on how to react to stressful events. If parents seem overly worried, children's anxiety may rise. Parents should reassure children that health and school officials are working hard to ensure that people throughout the country stay healthy. However, children also need factual, age appropriate information about the potential seriousness of disease risk and concrete instruction about how to avoid infections and spread of disease. Teaching children positive preventive measures, talking with them about their fears, and giving them a sense of some control over their risk of infection can help reduce anxiety.

### **Specific Guidelines**

### Remain calm and reassuring.

- Children will react to and follow your verbal and nonverbal reactions.
- What you say and do about COVID-19, current prevention efforts, and related events can either increase or decrease your children's anxiety.
- If true, emphasize to your children that they and your family are fine.
- Remind them that you and the adults at their school are there to keep them safe and healthy.
- Let your children talk about their feelings and help reframe their concerns into the appropriate perspective.

### Make yourself available.

- Children may need extra attention from you and may want to talk about their concerns, fears, and questions.
- It is important that they know they have someone who will listen to them; make time for them.
- Tell them you love them and give them plenty of affection.

### Avoid excessive blaming.

- When tensions are high, sometimes we try to blame someone.
- It is important to avoid stereotyping any one group of people as responsible for the virus.
- Bullying or negative comments made toward others should be stopped and reported to the school.
- Be aware of any comments that other adults are having around your family. You may have to explain what comments mean if they are different than the values that you have at home.

### Monitor television viewing and social media.

- Limit television viewing or access to information on the Internet and through social media. Try to avoid watching or listening to information that might be upsetting when your children are present.
- Speak to your child about how many stories about COVID-19 on the Internet may be based on rumors and inaccurate information.
- Talk to your child about factual information of this disease—this can help reduce anxiety.
- Constantly watching updates on the status of COVID-19 can increase anxiety—avoid this.
- Be aware that developmentally inappropriate information (i.e., information designed for adults) can cause anxiety or confusion, particularly in young children.
- Engage your child in games or other interesting activities instead.

### Maintain a normal routine to the extent possible.

- Keep to a regular schedule, as this can be reassuring and promotes physical health.
- Encourage your children to keep up with their schoolwork and extracurricular activities, but don't push them if they seem overwhelmed.

### Be honest and accurate.

- In the absence of factual information, children often imagine situations far worse than reality.
- Don't ignore their concerns, but rather explain that at the present moment very few people in this country are sick with COVID-19.
- Children can be told this disease is thought to be spread between people who are in close contact with one another—when an infected person coughs or sneezes.
- It is also thought it can be spread when you touch an infected surface or object, which is why it is so important to protect yourself.
- For additional factual information contact your school nurse, ask your doctor, or check the https://www.cdc.gov/coronavirus/2019-ncov/index.html website.

### Know the symptoms of COVID-19.

- The CDC believes these symptoms appear in a few days after being exposed to someone with the disease or as long as 14 days after exposure:
  - o Fever
  - o Cough
  - Shortness for breath
- For some people the symptoms are like having a cold; for others they are quite severe or even life threatening. In either case it is important to check with your child's healthcare provider (or yours) and follow instructions about staying home or away from public spaces to prevent the spread of the virus.

### Review and model basic hygiene and healthy lifestyle practices for protection.

- Encourage your child to practice every day good hygiene—simple steps to prevent spread of illness:
  - Wash hands multiple times a day for at least 20 seconds (singing Twinkle, Twinkle Little Star slowly takes about 20 seconds).
  - Cover their mouths with a tissue when they sneeze or cough and throw away the tissue immediately, or sneeze or cough into the bend of their elbow. Do not share food or drinks.

- Practice giving fist or elbow bumps instead of handshakes. Fewer germs are spread this way.
- Giving children guidance on what they can do to prevent infection gives them a greater sense of control over disease spread and will help to reduce their anxiety.
- Encourage your child to eat a balanced diet, get enough sleep, and exercise regularly; this will help them develop a strong immune system to fight off illness.

### Discuss new rules or practices at school.

- Many schools already enforce illness prevention habits, including frequent hand washing or use of alcohol-based hand cleansers.
- Your school nurse or principal will send information home about any new rules or practices.
- Be sure to discuss this with your child.
- Contact your school nurse with any specific questions.

### Communicate with your school.

- Let your school know if your child is sick and keep them home. Your school may ask if your child
  has a fever or not. This information will help the school to know why your child was kept home. If
  your child is diagnosed with COVID-19, let the school know so they can communicate with and get
  guidance from local health authorities.
- Talk to your school nurse, school psychologist, school counselor, or school social worker if your child is having difficulties as a result of anxiety or stress related to COVID-19. They can give guidance and support to your child at school.
- Make sure to follow all instructions from your school.

### **Take Time to Talk**

You know your children best. Let their questions be your guide as to how much information to provide. However, don't avoid giving them the information that health experts identify as critical to ensuring your children's health. Be patient; children and youth do not always talk about their concerns readily. Watch for clues that they may want to talk, such as hovering around while you do the dishes or yard work. It is very typical for younger children to ask a few questions, return to playing, then come back to ask more questions.

When sharing information, it is important make sure to provide facts without promoting a high level of stress, remind children that adults are working to address this concern, and give children actions they can take to protect themselves.

Information is rapidly changing about this new virus—to have the most correct information stay informed by accessing https://www.cdc.gov/coronavirus/2019-ncov/index.html.

### **Keep Explanations Age Appropriate**

- Early elementary school children need brief, simple information that should balance COVID-19
  facts with appropriate reassurances that their schools and homes are safe and that adults are
  there to help keep them healthy and to take care of them if they do get sick. Give simple
  examples of the steps people take every day to stop germs and stay healthy, such as washing
  hands. Use language such as "adults are working hard to keep you safe."
- Upper elementary and early middle school children will be more vocal in asking questions about whether they truly are safe and what will happen if COVID-19 comes to their school or community.
   They may need assistance separating reality from rumor and fantasy. Discuss efforts of school and

community leaders to prevent germs from spreading.

Upper middle school and high school students are able to discuss the issue in a more in-depth
(adult-like) fashion and can be referred directly to appropriate sources of COVID-19 facts. Provide
honest, accurate, and factual information about the current status of COVID-19. Having such
knowledge can help them feel a sense of control.

### Suggested Points to Emphasize When Talking to Children

- Adults at home and school are taking care of your health and safety. If you have concerns, please talk to an adult you trust.
- Not everyone will get the coronavirus (COVID-19) disease. School and health officials are being especially careful to make sure as few people as possible get sick.
- It is important that all students treat each other with respect and not jump to conclusions about who may or may not have COVID-19.
- There are things you can do to stay health and avoid spreading the disease:
  - o Avoid close contact with people who are sick.
  - Stay home when you are sick.
  - o Cover your cough or sneeze into your elbow or a tissue, then throw the tissue in the trash.
  - o Avoid touching your eyes, nose, and mouth.
  - Wash hands often with soap and water (20 seconds).
  - o If you don't have soap, use hand sanitizer (60–95% alcohol based).
  - Clean and disinfect frequently touched objects and surfaces using a regular household cleaning spray or wipe.

### **Additional Resources**

Talking With Children: Tips for Caregivers, Parents, and Teachers During Infectious Disease Outbreaks, <a href="https://store.samhsa.gov/product/Talking-With-Children-Tips-for-Caregivers-Parents-and-Teachers-During-Infectious-Disease-Outbreaks/SMA14-4886">https://store.samhsa.gov/product/Talking-With-Children-Tips-for-Caregivers-Parents-and-Teachers-During-Infectious-Disease-Outbreaks/SMA14-4886</a>

Coping With Stress During Infectious Disease Outbreaks, <a href="https://store.samhsa.gov/product/Coping-with-Stress-During-Infectious-Disease-Outbreaks/sma14-4885">https://store.samhsa.gov/product/Coping-with-Stress-During-Infectious-Disease-Outbreaks/sma14-4885</a>

Centers for Disease Control and Prevention, Coronavirus Disease 2019 (COVID-19), <a href="https://www.cdc.gov/coronavirus/2019-ncov/about/transmission.html">https://www.cdc.gov/coronavirus/2019-ncov/about/transmission.html</a>

Handwashing and Hand Sanitizer Use at Home, at Play, and Out and About, <a href="https://www.cdc.gov/handwashing/pdf/hand-sanitizer-factsheet.pdf">https://www.cdc.gov/handwashing/pdf/hand-sanitizer-factsheet.pdf</a>

For more information related to schools and physical and mental health, visit <u>www.nasponline.org</u> and <u>www.nasn.org</u>.

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### Work hard. Be nice. Extend grace. Show mercy. Be humble.

Name (First & L	_ast):
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Team: MAROON OR GOLD

**Homeroom Teacher:** 

### NTI #16



Work hard. Be nice. Extend grace. Show mercy. Be humble.



## Waves, Sound, and Light

### Testing Concepts

in the blank at the left. **Directions:** Match the terms in Column II with the descriptions in Column I. Write the letter of the correct term

Skill: Interpret Scientific Illustrations

II. Understanding Concepts Chapter Test (continued)

Directions: Identify the parts of the human ear below. In the spaces below, explain the function of each part

### Column I

- 1. the distance between one point on a wave and the the wave travels nearest point moving in the same direction in which
- the number of wavelengths that pass by a point each second
- 3. the bending of a wave around an object
- the human perception of the frequency of sound
- 5. a wave that can travel through matter or empty space
- repeated echoes
- 7. causes particles in matter to move back and forth at right angles to the direction in which the wave travels
- the change in direction of a wave when it travels from one material to another

**Directions:** For each of the following, write the letter of the term or phrase that best completes the sentence.

- 9. Waves that can travel only through matter are known as b. mechanical c. electromagnetic waves.
- a. Frequency is measured in meters. b. Wave speed
- c. Wavelength
- d. Intensity
- c. hertz d. wavelength
- waves to locate people in the dark,
- b. ultraviolet
- adjacent troughs. \_ wave is the distance between two adjacent crests or d. gamma

c. transverse

d. seismic

- 14. To find the frequency of a compressional wave, you would count the number of that pass by a point each second.
- c. diffractions
- d. rarefactions

a. diffraction

Column II

b. electromagnetic wave

c. firequency d. pitch

e. refraction

g. transverse wave reverberation

h. wayelength

### Assessment

light

auditory canal

Eustachian tu

Assessment

4. What is the function of part l in the diagram above?

5. What is the function of part 2 in the diagram above?

If part  $\beta$  failed to function in a person, what would an implant have to do to imitate the function of this part of the ear?

36

Waves, Sound, and Light

35

Waves, Sound, and Light

11. Frequency is measured in units called

b. lambda

12. Night vision goggles use a, infrared

13. The wavelength of a\_

a. rolling compressional

b. refractions

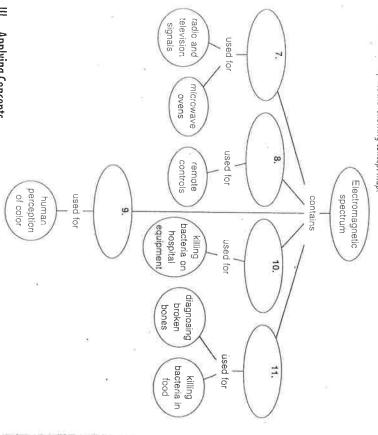
a. crests

### Chapter Test (continued)

Skill: Concept Mapping

(D)

Directions: Complete the following concept map.



III. Applying Concepts

Directions: Answer the questions below in the space provided.

- A sound wave with a frequency of 15,000 Hz travels through iron with a speed of 5,130 m/s.
   What is the wavelength of this wave?
- 2. A radio wave has a wavelength of 0.3 m and travels at a speed of 300,000,000 m/s. What is the frequency of this wave?

Waves, Sound, and Light 37

Assessment

yesessment

5. Compare and contrast refraction and diffraction.

38 Waves, Sound, and Light

Chapter Test (continued)

If a light wave strikes the mirror as shown below, what is the angle of reflection? Explain your answer.

1		incoming wave		og .
//	40.	ŝ. /	/	normal
300	11		`	outgoing wave

Writing Skills

**Directions:** Answer the following questions using complete sentences.

4. Describe how sound waves travel through matter.

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### 7th Grade Days 16-20 Social Studies NTI Assignments

### Days 16-20

contributions, and lasting impact. This week you will continue to explore the ancient America civilizations of the Maya, Inca, and Aztec. The focus for this week will be their cultures.

restatements, and cite sources where necessary. Answer the questions on notebook paper. Day 16: Read and analyze the sources for 2,5 Creation Stories. Use the sources to answer the "Synthesize and Write" questions at the bottom of page 475. Please use complete sentences,

Day 17: Read the GeoActivity handout about Machu Picchu, an important landmark for the Inca culture. Use the text to complete questions #1-2 on the worksheet,

Day 18: Today you compare and contrast the Mayan ball game with modern sports. Study the diagram on page 469 and use it to complete the venn diagram-compare and contrast the Mayan ball game with a modern sport (basketball, volleyball, or soccer).

article to answer the ten multiple choice questions. Day 19: Read the article, "Aztec Empire- Writing and Technology" from Ducksters. Use the

RACE (Restate, Answer, Cite, Explain). When you cite, please tell which document your should tell the reader how or why your source corroborates, or backs up, your claim/answer, information came from, such as "According to 'Uncovering Maya Murals'...". Your explanation Day 20. Using the resources from Days 11-19, answer the constructed response question using

# Additional Resources to enhance your learning:

these on Mrs. Criswell's Google Classroom or by the links below. Watch the following BrainPop videos about each of the ancient civilizations. You can access

Use the following login information:

Password: harrison20

Video 1- https://www.brainpop.com/socialstudies/ancientcultures/azteccivilization

Video 2- https://www.brainpop.com/socialstudies/ancientcultures/mayacivilization/

Video 3- https://www.brainpop.com/socialstudies/ancientcultures/incacivilization/

Interactive Map of Early Civilizations in the Americas-

85\_amcivilization.html http://www.eduplace.com/kids/socsci/ca/books/bkf3/maps/AC 09 285 amcivilization/AC 09 2

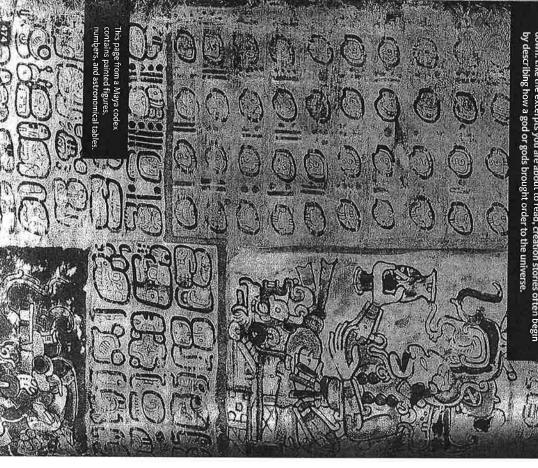
### Maya-

- Video with fascinating facts about the Mayahttps://www.youtube.com/watch?v=3odJDGKPPTU
- Video about the Mayan sacred ball game- https://vimeo.com/88365226

Digital Interactives with facts about the cultures of the ancient American peoples. https://carlos.emory.edu/htdocs/ODYSSEY/AA/aafront.htm

Learn more about these three ancient civilizations with this interactive presentationhttps://www.sutori.com/story/aztec-inca-maya--mD55p7qumfe14PpZVvE2kgK1

down. Like the excerpts you are about to read, creation stories often begin began and how people came to exist. Creation stories are often considered sacred and are usually passed down by oral tradition before they are writter Every culture has a describing how a god or gods brought order to the universe. : an account that explains how the world



Primary Source: Sacred Text

### from the Popol Vuh, translated by Dennis Tedlock

from a world that contains only the sea. sacred stories for future generations, Maya Maya culture in the 1500s. To preserve their gribes wrote them down in the Popol Vuh panish conquerors destroyed much of this passage, two Maya.gods form Earth

CONSTRUCTED RESPONSE According to this passage. how did the Maya gods form Earth?

> cloud, like a mist, now forming, unfolding the earth arose because of them, it was and platform ... " they said. And then water should be removed, emptied out for "Let it be this way, think about it: this simply their word that brought it forth "Earth." It arose suddenly, just like a for the forming of the earth they said, the formation of the earth's own plate

### DOCUMENT TWO

.....

### rom the Book of Genesis

origin, or beginning," God creates night and day. n this passage from Genesis, which means "the book of the Old Testament in the Christian Bible. collection of sacred Jewish texts. It is also the first Senesis is the first book of the Hebrew Bible, a **followers** of both religions believe in a single God

the world like before God brought light to the earth? CONSTRUCTED RESPONSE In this excerpt, what was

### Primary Source: Sacred Text

Night. And there was evening and there the light Day, and the darkness He called the light was good, and God separated void [empty] ... - God said, "Letthere be earth—the earth being unformed and was morning, a tirst day. the light from the darkness. God called light"; and there was light. God saw that When God began to create heaven and

### DOCUMENT THREE

### from Pan Gu Creates Heaven and Earth, translated by Jan and Yvonne Walls

universe that is shaped like an egg. ths passage, Pan Gu bursts from a disordered story. Pan Gu created heaven and earth. In for more than 2,000 years. According to the tory that has been told and passed down an Gu is a god in an ancient Chinese creation

formed heaven and what elements formed the earth? CONSTRUCTED RESPONSE In this myth, what elements

> slowly sank down to form the earth. heaven and the impure heavier parts elements gradually rose up to become shaped chaos into pieces. The pure lighter that egg.... Then one day he woke and

### Primary Source: Myth

nurtured [cared for] in the dark chaos of Pan Gu, an enormous giant, was being

stretched himself, shattering the egg-

### SYNTHESIZE & WRITE

- Civilizations. the creation stories and religious beliefs of early REVIEW Review what you have learned about
- RECALL On your own paper, write down the main idea expressed in each document.
  - 3. CONSTRUCT Write a topic sentence that characteristics of creation stories? answers this question: What are some common
- 4. WRITE Using evidence from the documents, write a paragraph to support your answer in Step 3-



### Vocabulary

frequency: the number of times a particular outcome occurs in an experiment

the number of times it frequency table: a table listing each outcome and

experimental probability outcomes; also called the compared to the possible results of an experiment



### Reminder

number of possible outcomes divided by the the number of favorable outcomes. Probability is the ratio of

# RELATIVE FREQUENCY

will toss a 6 more often than any other number. To see a board game using a number cube, and she thinks she Hinan thinks that 6 is her lucky number. She is playing if this is true, she performs an experiment.

She makes a frequency table, listing the number of outcomes for each of the numbers on the cube. Hinan tosses a number cube, numbered 1 to 6, 20 times

### Experiment 1

Number on the cube	1	2	3	4	5	6
Frequency	ယ	51	2	4	1	5

number of trials, is 20. Notice that the sum of the frequencies, or the total

$$3 + 5 + 2 + 4 + 1 + 5 = 20$$
 trials

Hinan's results show that the frequency of rolling a

probability, of tossing a 6 by writing a ratio. You can find the relative frequency, or experimental

Relative frequency =  $\frac{\text{Frequency of item}}{\text{Total number of trials}}$ 

$$\frac{5 \text{ frequencies}}{20 \text{ trials}} \rightarrow \frac{5}{20} = \frac{1}{4}$$

So, the relative frequency of tossing a 6 is  $\frac{1}{4}$ .

### **Guided Practice**

### **Experiment 2**

1. Hinan performs the same experiment again. She records the results in the frequency table below.

14	20	18	15	12	21	Frequency
6	Ol	4	ω	2	1	Number on the cube

٥ What is the total number of trials? 100

- ŗ What is the frequency of tossing a 6? 14
- ٥ Find the relative frequency by writing a ratio.  $\frac{14}{150} = \frac{2}{50}$
- ٩ Compare the results of Hinan's two experiments.  $P(6 \text{ for } 90 \text{ trials}) = \frac{\frac{6}{20} = \frac{1}{4}}{}$ P(6 for 20 trials) =P(6 for 100 trials) =160 = 50

Which probability was greater? P(6 for 100 frials)

### Exercises

Ramon conducted an experiment with a spinner. Use his frequency table for Exercises 2 to 6.

14 94	18	22	Frequency
I	×	w	Letter on spinner

- 2. Find the total number of trials.
- 3. Find the relative frequency of spinning an S.
- 4. Find the relative frequency of spinning an M
- 5. Find the relative frequency of spinning an L.
- 6. Find the relative frequency of landing on a vowel

### Application



- 7. Place 20 coins in a paper cup. Shake them up and spill them on the table.
- a. Record your data in this table.

- What is the relative frequency of heads?
- c. What is the relative frequency of tails?
- d. If one coin is thrown on the desk, what is the probability that it will show tails? P (tails) =

25



### Vocabulary

**population:** a large group of people or objects from which a sample is taken

sample: a subgroup that represents the larger population

**sampling:** collecting data from a sample of the

### SAMPLING A **POPULATION**

Several weeks later, they recapture a sample of 100 "Capture/Recapture." First, they capture a sample of A group of environmentalists study the redfish redfish. They see that 15 redfish are tagged. 300 redfish, tag them, and put them back into the pond **population** in a pond using a method called

By sampling this population, the environmentalists size of the population. can estimate the number of redfish in the pond, or the

of total fish population (P). First, find the ratio of tagged fish in the original sample

300

to the total number of fish in the second sample. Next, find the ratio of tagged fish in the second sample

Then, write a proportion and solve.

Reminder

$$\frac{300}{P} = \frac{15}{100}$$

$$15 \times \mathcal{P} = 300 \times 100$$

for the missing value. cross multiply and solve To solve a proportion,

$$P = 30,000 \div 15$$

2,000

approximately 2,000 redfish in the pond. The environmentalists estimate that there are

predict results for larger populations that would be too Sampling relies on probability and relative frequency to difficult to count.

### **Guided Practice**

- 1. To estimate the size of the alligator population in Louisiana swamps, months later, rangers recapture 250 alligators, 6 of which are tagged rangers capture 35 alligators, tag them, and then release them. Two
- a. Write a ratio for the number of alligators tagged

to the total population.

- b. Find the ratio of the tagged alligators to the total number recaptured.  $\frac{6}{250} = \frac{125}{125}$
- Write a proportion. 250 25 = 6
- d. Solve the proportion to estimate the alligator population. P =1458,3 8541 20 alligators

### Exercises

Estimate the total population using the Capture/Recapture method.

- 2. Wolves in the forest: Capture and tag 40. Recapture 30, with 8 tagged.
- a. Proportion:
- b. Estimated population of wolves:

Application

- 3. Jasmine has a large jar of pennies. She wants to know how many 30 more pennies, 6 of which have a red dot. takes 30 pennies from the jar and marks each with a red dot. Next, she places the pennies back in the jar and mixes them. Then, she takes out pennies she has, but she doesn't want to count them all. First, she
- a. Estimate the total number of pennies in Jasmine's jar.
- b. Fill a jar with pennies. Repeat Jasmine's experiment. How many pennies are in your jar?

Ms. Johnson/ Mrs. Fuller NTI Assignments Days 16-20 Reading

operaton that helped save the lives of approximately 10,000 Jewish children. Using this text attached to assist you in completing these tasks. If your teacher utilizes Google Classroom review text evidence and text features, and complete an assessment. Support resources will be you will build vocabulary, review important nonfiction elements, write an objective summary, story of a 14-year-old who escaped Nazi-Germany through the Kindertransport, a rescue (Fuller does not), you may also use this to look for additional support resources You will be reading the nonfiction piece: "The Children Who Escaped the Nazis," This tells the

If you have any questions, you can contact your teachers the following ways:

- 1. Call HCMS 234-7123

miranda.johnson@harrison.kyschools.us or carla.walker@harrison.kyschools.us

Mrs. Fuller can be reached via text on M-F between 9am-3pm. (859) 588-1288. Ms. Johnson can be reached via text on M-F between 9am-3pm. (859) 954-8635

do not hesitate to ask for our help! We miss our students, and we hope you are doing well! Google Classroom, you will also be able to access an electronic copy of the reading log. Please copies of the reading log will be available in the front lobby at HCMS. If your teacher utilizes difficulty at this time. If your student elects to participate in this extra credit assignment, hard addition to their NTI packets will now be considered EXTRA CREDIT, as we understand the due to the fact that students may not have access to a book, any reading that is completed in are REQUIRED, and will make up a large of your grade for the final grading period. Once again, We would like to remind you of the importance of completing these assignments. NTI packets

Complete the Before Reading section of the Read. Think, Explain page of your packet.

Locate and complete the Vocabulary/Vocabulary Practice page in your packet.

10-15 minutes of reading



NONFICTION: "The Children Who Escaped the Nazis," pages 4-9 Nonfiction Elements-HL

April 2018

Date:

## **Identifying Nonfiction Elements** Read, Think, Explain

and "Glossary of Literary Terms" for definitions of the words that appear in bold. Use this activity sheet with "The Children Who Escaped the Nazis." See Scope's "Glossary of Nonfiction Terms"

Text Features, Inference **Before Reading** 

1. Read the headline and subheading and study the images on pages 4-5. What do these text features tell you about what the story is going to be about?
2. From the map on page 7, what can you infer about the Nazis?
s. Study the photograph of the children on pages 8-9 and read the caption, Based on these features, what do yo think the Kindertransport was?
t. Read the section titles in the article. Based on your preview of the article, write one sentence predicting what the article will be mainly about.

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PAGE 1 OF 3



Vocabulary Acquisition
NONFICTION: "The Children Who Escaped the Nazis," pages 4-9
April 2018

### Vocabulary:

"The Children Who Escaped the Nazis"

Online to listen and definitions to the words Go to Scope read aloud.

1. advocate (AD-vuh-kit) noun or (AD-vuh-kayt) verb; An advocate is a person who supports or argues for the interests of another person, group, or cause. Advocates often speak, write, or advocate for civil rights. take action to defend something they believe in. Dr. Martin Luther King Jr. was a passionate

as an advocate," The student council might advocate for healthier snack choices in the school's As a verb, advocate means "to support, recommend, or argue for something or someone—to act vending machines by writing a letter to the principal.

- 2. anti-Semitism (an-tee-SEM-i-tiz-uhm) noun; A Semite (SEM-ahyt) is a person who speaks people in particular. Anti-Semitism is prejudice, discrimination, or hostility toward Jewish are among the Semitic languages. An anti-Semite is a person who is prejudiced against Jewish people because of their religion or ethnicity. a Semitic (suh-MIT-ik) language. Arabic and Hebrew—which is spoken by many Jewish people—
- 3. denounce (dih-Nowns) verb; To denounce something is to publicly state that it is bad or wrong. If a world leader denounces the use of violence, he or she is expressing strong disapproval
- 4. embîttered (em-BIT-ehrd) adjective; The adjective bitter can refer to a strong and not at all sweet flavor, like that of coffee or dark chocolate. Bitter can also refer to an emotion; if you are bitter, you are angry and unhappy because you feel you've been treated unfairly.

The verb embitter means "to cause someone to feel bitter."

If someone is embittered, he or she has been made to feel angry and resentful by something unpleasant or unfair that happened to him or her.

5. herculean (hur-kyoo-LEE-uhn) adjective; In Roman mythology, Hercules (HUR-kyuh-lecz) courage, or effort, Firefighters might make a herculean effort to put out a rapidly spreading is a god who possesses exceptional strength. A herculean task is one that requires great strength

SUNDING OL HERBRISTO OLI 1544 SPULLES STADO DAVA DO 11300A APA SAHOVIL DA SUNDINGS AT REPARE

PAGE 1 OF 3

Vocabulary Acquisition NONFICTION: "The Children Who Escaped the Nazis," pages 4-9

6. mitigate (MIT-i-gayt) verb; To mitigate something is to make it less severe, harsh, or painful—to ease it. Wearing a helmet mitigates head injury, If you're nervous about doing something, talking to someone who has already done it might mitigate your concerns.

- 7. OStracize (AHS-truh-sahyz) verb; To ostracize someone is to exclude him or her from ostracize Megan, they shut her out—they don't let her join in their conversations or participate a group—in other words, to not allow that person to be part of a group. If the kids at school in group activities.
- 8. OUST (owst) verb; To oust someone is to force that person out of a position or a place—basically, else got a better score than her and is now in first place instead. If your parents are trying to watch a movie and you are making a lot of noise, they might oust you from the room. to kick him or her out. If Tara is ousted from first place in a competition, it means that someone

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PAGE 2 OF 3

Vocabulary Acquisition
NONFICTION: "The Children Who Escaped the Nazis," pages 4-9
April 2018

# Vocabulary Practice "The Children Who Escaped the Nazis"

<b>Directions:</b> Choose the word or phrase the similar in meaning to each word in bold.	Directions: Choose the word or phrase that is most similar in meaning to each word in bold.	<b>Directions:</b> For each question below, fill in the circle next to the best answer.
l. mitigate		5. Which of the following might cause you to feel
(3) lighten	®worsen	embittered?  (a)  (b)  (c)  (b)  (c)  (e)  (d)  (e)  (e)  (e)  (e)  (f)  (e)  (e)  (f)  (e)  (e
(a) take in	® push out	@realizing that you were tricked into doing something you didn't want to do
3. denounce  (a) compliment	((()) criticize	For which of the following might a doctor advocate?      ®exercising at least three times a week
4. embittered		@eating a diet that consists mostly of candy
@resentful	(®)joyful	
Directions: Rewrite (	ach sentence using a form of one of	Directions: Rewrite each sentence using a form of one of the words in the box. There is one word you will not use.  mitigate herculcan ostracize anti-Semitism
7. I moved the cou	ch from one side of the living roo	7. I moved the couch from one side of the living room to the other all by myself—an extremely difficult task.
8. When Adolf Hitle	er came to power in Germany, he	8. When Adolf Hitler came to power in Germany, he encouraged hatred of Jewish people.
9. Alex's friends apo	ologized for excluding him from t	Alex's friends apologized for excluding him from their lunch table after their argument.

PAGE 3 OF 3

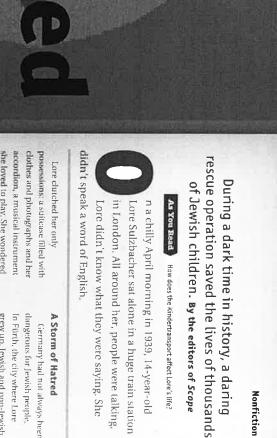
During a dark time in history, a daring

of Jewish children. By the editors of Scope

n a chilly April morning in 1939, 14-year-old As You Read How does the Kindertransport affect Lore's life?

Lore Sulzbacher sat alone in a huge train station in London. All around her, people were talking, Lore didn't know what they were saying. She

# A story of the Holocaus



sending her away. Germany, parents had said they were clothes and photographs and her possessions: a suitcase filled with what was going to happen to her she loved to play. She wondered accordion, a musical instrument Just a few days earlier, Lore's Lore clutched her only

thousands of children. desperate plan to save the lives of year old-to Britain to live with their kids-some less than a and Czechoslovakia were sending like them. Thousands of Jewish dangerous for Jewish people strangers. They were all part of a parents across Germany, Austria, where Lore lived, had become

parents have to send her away? washed over her. Why did her they be? Would they be kind? Fear names. What sort of people would to take her in-not even their the family that had volunteered into her mind. She didn't know that April morning, doubt crept As Lore waited in the station

### A Storm of Hatred

the 1920s was not easy. Germany grew up, Jewish and non-Jewish and many people had lost their German economy had collapsed defeat in World War L-The had recently suffered a crushing by side. Still, life in Germany in Germans lived and worked side In Fürth, the city where Lore dangerous for Jewish people. Germany had not always been

for their problems: Jewish people gave Germans someone to blame Germany strong again. He also power. Hitler promised to make man named Adolf Hitler rose to Then, in the early 1930s, a

and rituals, with confusion and their different religion, customs, regarded Jewish people, with long existed in Europe. Many people, or anti-Semitism, had Prejudice against Jewish

flames of these centuries. Hitler fanned the



Germans listened with eager ears with lies, but many embittered said, These speeches were filled were the "pests" of the world, he corrupting all of Europe, They Jewish people. He called them hateful speeches denouncing old suspicions. He gave "subhuman" and said they were

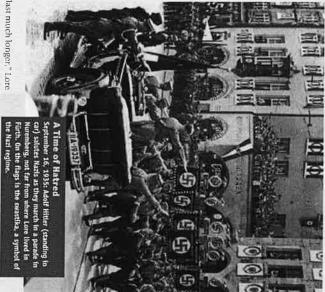
society. stripped German Jews of their years, Hitler and his Nazi Party made life harder and harder for beliefs shaped new laws that rights and ostracized them from lewish people. Over the next five German government. His racist chancellor—the head of the In 1933, Hitler became

people or threw stones at them. some shouted insults at Jewish fewish people were beaten in the restaurants and shops that said Signs appeared in windows of neighbors turned cold and cruel, forbidden to vote. Friends and from their jobs. They were Jews not wanted," Sometimes Jewish people were fired

because she was Jewish. could no longer swim in public walk through public parks—just pools or go to the movies or even By the time Lore was 12, she

its senses, that Hitler would be that the country would come to prejudice before. Many felt sure soon end. They had coped with believed that the terror would Yel many German Jews

"This lunatic couldn't possibly



remembers her parents

as Kristallnacht, or the Night of ground. Jewish stores were looted violent attacks came to be known and destroyed. This night of synagogues were burned to the fewish homes, schools, and unleashed terrible violence. mobs organized by the Nazis and parts of Czechoslovakia, towns across Germany, Austria, shattered. On the night of November 9, 1938, in cities and But that hope was soon

parents accepted the truth: Their After that, Lore and her

> ever known-was no longer safe country—the only home they'd

They needed to get out.

The Children

### for them.

a wave of newcomers from including the U.S., argued that struggling to find work and feed in Europe and the U.S. were At the time, millions of people to those trying to escape Hitler. their families. Many countries, were willing to open their doors spread, people around the world were horrified. Yet few countries As news of Kristallnacht

government to take action.

They appealed to the British they could save the children. whole families out, but maybe do something. They couldn't get for refugees was determined to Jewish and non-Jewish advocates

> donc. over what should be chance of mitigating of taking the young Hoare said in a debate Secretary Samuel friends," British Home their parents and their terrible suffering of to some extent the people, Here is a generation of a great On November "Here is a chance

favor of helping child 22, the British government voted in refugees. In the

German.) operation would coming days, a children in (Kinder means Kindertransport be called the took shape. This rescue operation

receive special children under that Jewish age 17 could It was decided

to come to Britain, where they return to Germany after the crisis child to pay for their eventual had to be set aside for each pounds—about \$1,500 loday boarding houses, or hostels, Fifty from sponsors or the children's ended. (The money often came would be placed in foster homes travel documents

> were quickly organized there as army invaded Czechoslovakia children. (In March 1939, Hitler's organizing and transporting the and Austria to set up systems for to young refugees. Meanwhile, Transports for Jewish children representatives went to Germany people had offered their homes Soon after, more than 500 radio aired a call for volunteers On November 25, British

survive the violence. their families together and try to safe from Nazi terror—or keep live with strangers to keep them decision: Send their children to countries now faced a hard Parents in Nazi-occupied

### Saying Goodbye

arriving in England every week 1939, nearly 300 children were train of the Kindertransport left Germany for England, By early On December 1, 1938, the first

and dad told her that they had lays to get ready to leave. Kindertransport, Lore had four arranged a place for her on the On April 14, 1939, Lore's morn

value to leave Germany. Vazis didn't want anything of 10 marks—about \$70 today. The one piece of hand luggage, and Lore was allowed one suitease,

scarce jobs.

But in Britain, a group of

Germany would compete for

In 1942, the main Avia remarker were Garmany. Tally, and Japan, The main Allied countries were Great Britain, the U.S., the Soviet Union, and China.

disappeared from sight. until her mom and dad parents said they would see her Lore stared out the window again. As the train pulled away. At the train station, Lore's



0

### A New Life

boarding houses or hostels. their necks so they could be up, wearing numbers around at train stations to be picked their foster families. They waited did not even know the names of England with little idea of what have foster families were sent to identified. Children who did not lay in store for them, Often they Most children arrived in

their home in the city of Lincoln said, but she went with them to understand much of what they and Mrs. Schreiber, Lore didn't introduced themselves as Mr. a couple approached her. They When Lore arrived in London

the kids made sure she knew Lore didn't know the rules, but England's most popular sports. Lore to play cricket, one of a sister. At school, kids invited 17-year-old son treated Lore as to school to learn English, Their food to cat, and they sent her gave her a bed to sleep in and to help Lore. The Schreibers people of Lincoln did their best The Schreibers and the

struggled to understand the didn't speak German, and she School was hard; her classmates to English food and customs. homesick. She wasn't used All the same, Lore was

her parents. They wrote to her told her to be strong. "Keep your often. In one letter, her father Above all, Lore worried abou



WTOLC.

out of Germany. She to get her loved ones children, Lore felt it Kindertransport was her duty to try

getting her morn and dad out was found guardians in England for England, they would be allowed could find jobs for her parents in two friends and a cousin, But narder. She knew the rule: If she

and put her broken English to the ones sure to be owned by rich people. She knocked on doors looking for the biggest homes— Lore walked around Lincoln

cook? she would ask, Do you need a gardener? A

would see her parents soon. government. Lore felt sure she would hire Lore's parents and sent an application to the British willing to help. They said they Finally, she found a family

> Hitler, countries in Europe to fight had invaded Poland, Britain was joining forces with other dreadful news came: Germany Then, on September 1, 1939,

World War II had begun,

### **Pushing Forward**

her parents through a relative in their families was crushed, Most Germany. For Lore and the other an end to the Kindertransport in Lore did get bits of news about communication stopped, though children, the dream of seeing The start of World War II put

of life in England. She learned to war, Lore tried to make the best Through the hard years of the

> She also took art classes at night, would later say.

shops the Schreibers owned.

sew while working in the dress

her to live and thrive. After all, her parents had wanted

But the grim realities of war

first time, she felt like she muly recalled, "we were all the same, belonged. "The people on my and given a job as a driver. She Lore was posted to London

warplanes rained bombs on were ever-present. German

war raged on for four more fight against Germany. The In 1941, the U.S. joined the

could not be stopped. France, It seemed that Hitler Belgium, the Netherlands, through Western Europe-England, German (anks rolled

When Lore turned 18 in 1943

England for saving my life," slic

left, the people on my right," she made many new friends. For the

### The End of the War

surrendered. The war was over years. Finally, in 1945, Germany

> again. Few Jewish people in Nazi one or both of their parents. But Kindertransport children found occupied countries survived. most never saw their parents After the war, hundreds of

the Holocaust. 6 million Jewish people the Nazis killed in a Nazi death camp called history would later be known as murdered. This terrible period of Auschwitz. They were among the Tragically, Lore's parents were

Fürth: She still dreamed about her to tell her story to an interviewer. ner dreams, her father carried parents, she said. Sometimes in her piggyback through a park in Decades later, Lore sat down

grandsons, Her maniage was as the war, she had a son and three with a sense of gratitude. After happy as her parents' had been seemed to look back on her life Despite all that she lost, Lore

families who opened their homes. politicians, religious leaders, people from many walks of life the herculean efforts of many children were saved thanks to feat. The lives of some 10,000 is remembered as a remarkable advocates, and the thousands of Today, the Kindertransport

here," Lore said, "I've had a lovely "I think I'm very lucky to be

### **Writing Contest**

felt I was saying thank you to she joined the British army, "I

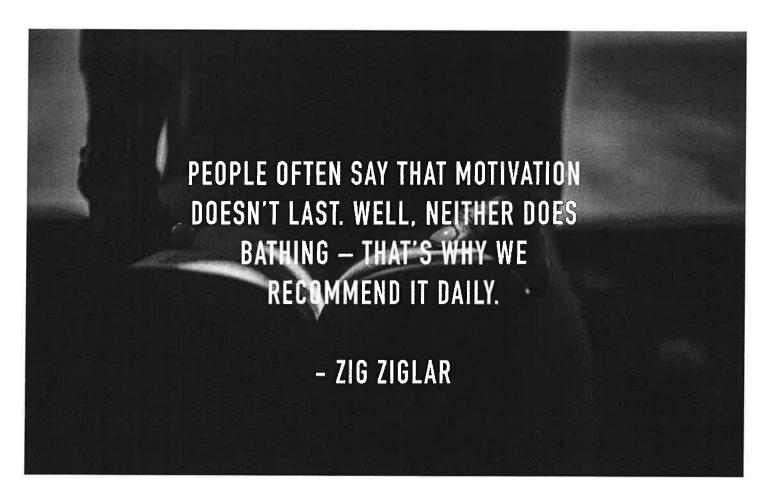
In an essay, a slideshow, or a video, explain the challenges faced by the children of the Kindertrans Support your ideas with text evidence. Send your entry to Kindertransport Contest. Five winners will get *The Wor I Finally Won* by Kimberly Brubaker Bradley.

Name	(First 8	Last)	·

Team: MAROON OR GOLD

Homeroom Teacher:

### NTI #17



Work hard. Be nice. Extend grace. Show mercy. Be humble.



2.1 THE INCA

Use with South America Geography & History, Section 2.1, in your textbook

myNGconnect.com to complete this activity online. Go to Interactive Whiteboard GeoActivities at

GEOGRAPHIC NATIONAL

School Publishing

# Create a Sketch Map of Machu Picchu

on the passage. Then answer the question. of land surrounded by high peaks. Sketch a map of Machu Picchu based Machu Picchu is situated high in the Andes Mountains on a narrow piece

# Machu Picchu: A Royal Inca Retreat

the west end of the dividing wall as the Cultivation Sector. The larger half, to the northwest, is the Urban smaller half, to the southeast, contains agricultural terraces. It is known Sector, where many ruins stand. The main gate into the Urban Sector is at southwest to northeast divides the site into two uneven halves. The that resembles a mirror image of the state of New Jersey. A wall running Machu Picchu is located on a long, narrow, and irregularly shaped site

is an area of temple ruins. West of the temple ruins, and east of the Industrial Zone, are more agricultural terraces. including the Royal Palace and the Royal Tomb. West of the Main Plaza Zone. South of the Main Plaza the Inca built a complex of royal buildings, Main Plaza is a district of houses and workplaces called the Industrial mountain peak called Huayna Picchu, or "Young Peak." East of the running north to south. Beyond the Main Plaza to the north looms a At the center of the Urban Sector is the Main Plaza, a rectangular plaza

- 1. Sketch Maps Reread the passage and underline key words and phrases right. Label places on the map. Be sure to include a compass rose. that describe the site's layout. Then draw your map in the space at
- 2. Make Inferences What do the ruins of Machu Picchu suggest about Inca society?

### MACHU PICCHU

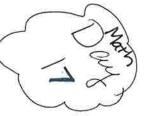


**INDEPENDENT EVENTS** 

### Vocabulary

independent events: two events with outcomes that do not depend on each other





getting a 4 on the cube and heads on the coin. tosses a coin. He wonders about the probability of Andre rolls a six-sided cube, numbered 1 to 6, and

are independent events. Rolling a cube has no effect on tossing a coin. The two

To find the probability, he makes a table of all the possible outcomes.

<b>T</b> 6	T5	T4	T3	T2	T1
H6	Н5	H4	НЗ	H2	H1

of getting a 4 and heads is  $\frac{1}{12}$ . Andre looks at the table and finds that the probability

$$P(4 \text{ and } H) = \frac{1}{12}$$

that both events occur is the probability of A multiplied If two events A and B are independent, the probability by the probability of B.

$$P(A \text{ and } B) = P(A) \times P(B)$$

probability of rolling a 4 is  $\frac{1}{6}$ . The probability of getting heads on a coin toss is  $\frac{1}{2}$ . The

independent events. Andre uses the formula above because he knows he has

$$P(4 \text{ and } H) = \frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$$

The results are the same.

### **Guided Practice**

- 1. What is the probability that Andre will get tails and an odd number?
- a. Use the table to list the favorable outcomes

c. P(T and odd) = b. Total number of possible outcomes = **d.**  $P(\mathbf{T}) = 0$ and P(odd) =

- **e.** Using the formula, P(T and odd) =
- 2. A booth at the school carnival has two game wheels. One has equal blue and 1? areas of red, blue, yellow, and green. The other has equal areas on one wheel and 1 on the other. What is the probability of spinning numbered 1, 2, 3, and 4. The most valuable prize requires spins of blue
- a. To find the probability, complete the table for all possible outcomes

R4	R3	R2	R1
5	S	ರ ಬ	0
ح	m	ىو	-
14	\ \ \	Y2	<b>Y</b>
2	0	(G)	3
4	w	ىھ	-

d. Using the formula, P(blue and 1) = b. P(blue and 1) P(blue) =and P(1) =

### Exercises

- 3. Make a table of all the possible outcomes for tossing a six-sided cube, black, purple, and orange sectors of equal area. Find the probability for each event listed below. numbered 1 to 6, and spinning a four-color wheel containing white,
- **a.** P(even number and purple)
- **b.** P(black and number less than 5)
- c. P(white and a positive number)
- d. P(3 and orange)
- **e.** P(a color and 5)
- f. P(purple and a number divisible by 3)

Use the formula  $P(A \text{ and } B) = P(A) \times P(B)$  to find the probability for each event.

- Tossing coins.
- a. Tossing 3 coins and getting 3 heads
- b. Tossing 2 coins and getting 2 tails
- 5. Rolling double 6's on two number cubes

### **Application**

- 6. Nabil has two number cubes, with four sides numbered 1, 2, 3, and 4.
- a. What is the probability that he will roll two even numbers when throwing the two dice?
- than 4? What is the probability that he will roll two numbers, each less

- 7. Emilita works at a day care center after school. She is planning a card game to teach the children to read their numbers and the picture
- Get a deck of playing cards, or make one with cut paper and red and black markers.
- b. Lay out the cards as Emilita would for the children.

	Spades	Hearts	Diamonds	Clubs
	,		nds	
N	×	×	×	×
ω	×	×	×	×
4	×	×	×	×
Oτ	×	×	×	×
6	×	×	×	×
7	×	×	×	×
00	×	×	×	×
9	×	×	×	×
10 J	×	×	×	×
J	×	×	×	×
Q	×	×	×	×
Q K A	×	×	×	х . х
A	×	×	×	×

- c. A child draws a card at random. What is the probability that the card is a club?
- d. The child puts the card back. What is the probability that the card is a king?
- e. The child puts the card back. What is the probability that the card is the king of clubs?

### 7th Grade Science Resources for NTI

### 7th Grade Science Students.

We have made you a "playlist" of videos you can use as a resource for our new Unit of Gravity. Mrs. Jones and Ms. Chapman will be posting their own video to further explain Gravity. This unit is about gravitation attraction between objects and how mass/distance factors into gravity. We look forward to this unit, and we hope this "playlist" will help your understanding of Gravity. WE MISS YOU ALL SO MUCH! We hope to see you very soon!

### **YOUTUBE VIDEOS:**

Directions- Please go to youtube, and type in the titles of each video.

- "Defining Gravity: Crash Course Kids #4.1
  - https://www.youtube.com/watch?v=ljRlB6TuMOU
- "The Gravity of the Situation: Crash Course Astronomy #7
  - https://www.youtube.com/watch?v=TRAbZxOHlVw
- Why the solar system can exist
  - https://www.youtube.com/watch?v=uhS8K4qFu4s
- "How far would you have to go to escape gravity? Rene Laufer
  - https://www.youtube.com/watch?v=YlxKh4oCKhw

### DIAGRAM:

### **Factors Affecting Gravity**

- There are two factors that affect the force of gravity on an object
  - Mass of the objects
    - As mass increases, so does force of gravity
  - Distance between the objects
    - As distance increases, force of gravity decreases







If mass increases, the force of gravity increases.





If distance increases, the force of gravity decreases

# PIAVITATIONAL FOICES

You can even move things located on the other side of a wall! Imagine you had two "superpowers," Both powers allow you to move things without touching them

acts only on things made of certain materials, like iron This force acts on objects near or far, but it pulls harder on close objects The other power allows you to pull and push objects. However, this force One power is the ability to pull anything toward you without touching it.



feel one of them right now. Do you know what these forces are? Do these powers sound familiar? If so, it's because you have seen both forces in action. You can

### What is Gravity?

away into space? You are probably sitting in a chair as you read this, What keeps you there? Why don't you float

large, you can feel it pulling on you. This pull is called your unless one of the objects is very large. Because Earth is very Gravity is always a pull, never a push. things, like other people, because the force is too weak weight. You can't feel the pull between yourself and smaller our own gravity! However, the force of attraction is very weak every object toward every other object. That means we all have "superpowers" mentioned above, Gravity is a force that pulls The answer is the force of gravity. This is one of the

away, the force gets weaker. the attraction between any two masses. The force of gravity is more mass an object has, the harder it is to move. Gravity is stronger when the masses are greater. If you move farther mass. Mass is what makes up all things in the universe. The Instead of saying Earth is large, we should say it has a lot of

and strange—but, altogether an amazing force. exists? Scientists have different theories about this, and they will affect different objects. But, why do you think the force Scientists understand enough about gravity to predict how it have not quite agreed on the answer. So gravity is both familiar









# GLAVITATIONAL FORCES

# Career Corner: Designing Bridges

support all that weight? force of gravity pulling on mass. The cars and the bridge have a Picture a long bridge with many cars on it, Imagine how much lot of mass. How do we know the bridge is strong enough to the cars and the bridge must weigh; We know that weight is the

strong enough to resist those forces. They must put together the all the forces acting on a bridge. They need to choose materials engineers. Some design and build bridges. They must identify materials in the best way, otherwise the bridge may collapse That is the job of an engineer. There are many kinds of



Gravity pulls down hard on this bridge

### Vhat Do You Think?

lots of mass?) Earth has a lot of mass. Which objects in space near Earth have is that force? Where does the force come from? (Remember that must be pulling on the water in the ocean to make it move. What forth on Earth like water in a bathtub. This means some force If you live by the ocean, you know its level changes every day The ocean goes up and down because it is sloshing back and



### Look Out!

amount of matter something has. Weight measures the gravitational pull of an object's mass Many people speak of weight and mass as if they are the same thing, but they are not. Mass is the

1 1 1

. . . . . . . .

gravitational pull is. For example, if matter weighs 100 pounds on Earth, the same piece of matter mass? Would you have the same weight? You would have the same mass because you would be would weigh 236 pounds on Jupiter. made of the same stuff. You would weigh more because the larger the planet, the larger its What if you were standing on a planet that had more mass than Earth? Would you have the same

they don't weigh as much on the Moon. The Moon's gravity pulls on them with less force, When astronauts go to the Moon, their mass doesn't change, However, they weigh much less Think about,when astronauts are on the Moon—they can jump extremely high! That is because



We know that your mass, or the amount of matter in your body, does not change if your were to travel to other planets. Your weight, however, is affected by the pull of gravity. Small objects have less gravity, and large objects have more gravity.

Calculate the weight of a 50-pound dog travelling the solar system.

Neptune	Uranus	Saturn	Jupiter	Mars	Earth	Venus	Mercury	A 11.00
					50			Mass (lb):
1.1	.86	.91	2.14	.38	1	.91	38	Gravity E
a					50		1	Weight :



w

Accelerate

# Connecting With Your Child

### Gravitational Forces at Home

This activity will help you explore the forces of gravity with your child

The only materials you will need are a ball and a few pieces of string

- Tie a piece of string around a ball.
   Find a large open area where you can swing the ball in a circle around your head.
- Slow your hand down and observe what happens to the ball,
- If there's a nearby playground, look for a tether ball and pole. As you play, think about the Spin the ball again and then let go of the string. (Be sure no one is standing nearby). forces at work.

Here are some questions to discuss with your child

- 1. What force does the pull of the string represent?
- How is this like the motion of the planets around the Sun?
- Our Moon is kept in its orbit by the pull of Earth's gravity. What would happen to the Moon if there were no gravity from Earth?
- 4. How is this like riding on the swings at an amusement park?

### Reading NTI Assignments

Day 17:
Read "The Children Who Escaped the Nazis."

Locate and complete the *During Reading* and *After Reading* pages of your packet. **DO NOT** WRITE THE OBJECTIVE SUMMARY ON THIS DAY.

10-15 minutes of reading

	NONFICTION: "The Children W	
April 2018	NONFICTION: "The Children Who Escaped the Nazis," pages 4-9	Nonfiction Elements-HL

### Mood, Text Structure, Inference, Tone **During Reading**

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Nonfiction Elements—HL
NONFICTION: "The Children Who Escaped the Nazis," pages 4-9
April 2018

# After Reading Central Idea/Details and Objective Summary

9. Below are three supporting details for a central idea of "The Children Who Escaped the Nazis," In the space provided, write a central idea that these details support,

Detail #1	#1	Deta	Detail#2	Detail #3
"Despite everything she lost, Lore seemed to look back on her life	ng she lost, Lore back on her life	" Lore tried to of life in England	" Lore tried to make the best of life in England. She learned to	"Lore was posted to London and given a job as a driver. She
with a sense of gratitude." (p. 9)	atitude." (p. 9)	sew while work shop the Schr	sew while working in the dress shop the Schreibers owned."	made many new friends. For the first time, she felt like she truly
		(p.	(p. 8)	belonged." (p. 9)

say to a friend who asks, "What is this article about?")

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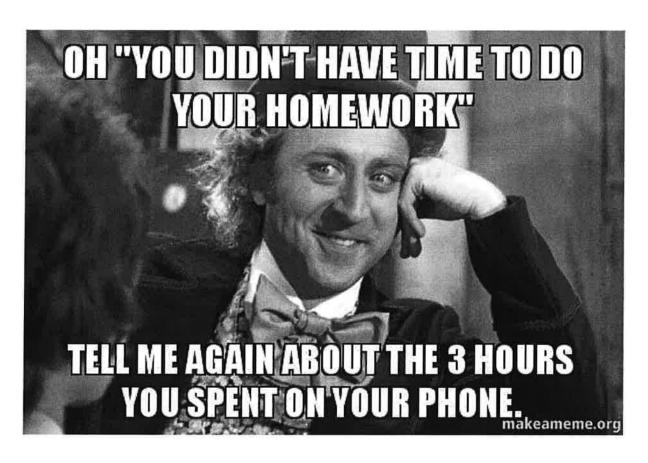
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Name (First &	Last):		
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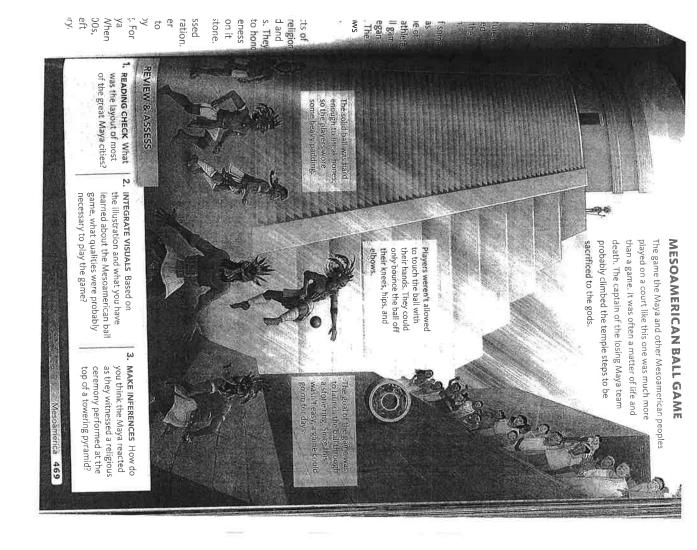
Team: MAROON OR GOLD

Homeroom Teacher:

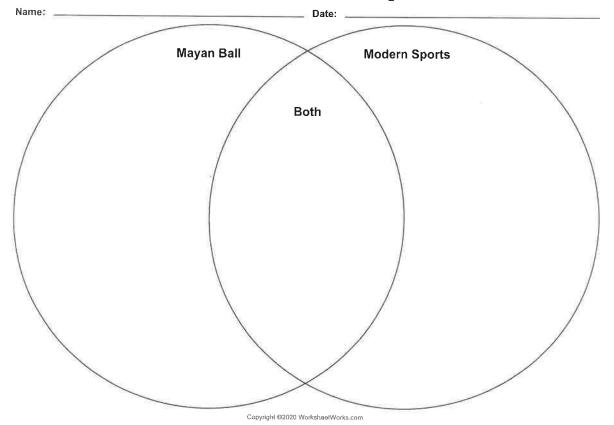
### NTI #18



Work hard. Be nice. Extend grace. Show mercy. Be humble.



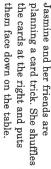
### Ancient vs. Modern Sports





DEPENDENT EVENTS





co



five," or 5. of picking a 3?" Her friends answer quickly, "One in Jasmine asks, "If I pick a card, what is the probability

$$\mathcal{P}(3) = \frac{1}{5}$$

card? What is the probability of picking a 2 as the second card?" "Okay," Jasmine says. "What if I don't replace the first

outcome as "one in four," or  $\frac{1}{4}$ . chosen, they will have to find the probability of picking the 2 from the four remaining cards. She shows this Jasmine points out that because the first card has been

$$\mathcal{P}(2) = \frac{1}{4}$$

that reason, these are called dependent events. dependent upon drawing the 3 as the first card. For affects the outcome of picking the second card. The explains that the outcome of picking the first card Seeing that her friends do not understand, Jasmine probability of drawing the 2 as the second card is

of the two dependent events. Jasmine shows her friends how to figure the probability

$$P(3, then 2) = \frac{1}{5} \times \frac{1}{4} = \frac{1}{20}$$

2 as the second card is  $\frac{1}{20}$ So, the probability of picking a 3 as the first card and a

### **Guided Practice**

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PROBABILITY

1. Martin has ten pieces of paper with one of the digits 0 to 9 on each. He picks three digits, one at a time the probability that Martin will pick the code 852? without looking, to make a three-digit code. What is

- a. The probability of an 8 on the first pick is 5
- b. How many digits remain in the sample
- 0 The probability of a 5 on the second pick is space?
- d. How many digits remain in the sample space?
- The probability of a 2 on the third pick is

f. Multiply the three probabilities

g. 
$$P(852) = \frac{10}{720}$$

 $\frac{720}{2}$ . If the following cards are face down and Mary picks (ace, ace). two cards, find the probability of picking two aces

ace, queen, 10, 8, ace, ace, queen, 10

a. What is the probability of picking an ace as the first card?

$$P(ace) = \frac{\frac{3}{8}}{8}$$

- b. Once the first card is set aside, what is the probability of picking an ace as the second card? P(ace) =
- c. P(ace, then ace) =

### Exercises

2 green counters. He picks one counter at a time and does not replace it. Find the probability of each of the following. Walden has a bag with 5 yellow counters, 3 blue counters, and

3. Picking 2 yellow counters.

$$P(Y, then Y) =$$

4. Picking a yellow counter, then a blue counter

$$P(Y, \text{ then B}) =$$

5. Picking a green counter, then a blue counter.

$$P(G, \text{then B}) = \underline{\hspace{1cm}}$$

bag. Find the probability of each of the following. Use your 9. Picking 3 counters: white, then red, then yellow Suppose Walden adds 6 red counters and 4 white counters to the 7. Picking 3 counters: red, then blue, then red calculator, if necessary. 6. Picking a yellow counter, then a green counter, then a blue counter. Picking 2 green counters, then a white counter. P(Y, then G, then B) =P(W, then R, then Y) =P(G, then G, then W) =P(R, then B, then R) =

### Application

- 10. Tom and his friends Nick, Steve, Juan, and Aiden are waiting to get cards into Tom's hat and shake it up. Juan pulls out two names, the first for the first-row seat and the second for the exit sign seat. one next to the exit sign. All five boys put their school identification up a sign saying there are only two seats left, one in the first row and into a movie. Just as they get to the ticket window, the manager puts
- What is the probability that Tom gets the first-row seat and Aiden gets the exit-sign seat?
- b. Make a list of all the possible outcomes

Start your list this way:

Tom, Steve

Tom, Juan

Tom, Aiden

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> c. How does your answer for P(Tom, then Aiden) compare with your list of outcomes?

d. Suppose Steve decides to go home. So the other four put their identification cards into the hat to decide who will see the movie. What is the probability that Juan and Aiden get to see the movie?

11. Make a set of cards with the following letters.

A, B, C, D, E, F, G, H, I, J

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H	
н	
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picked is set aside. Find the probability of each of the following picks if the first card

- **a.** What is P(A, then B)? P =
- **b.** What is P(A, then vowel)? P =
- c. What is P(vowel, then vowel)? P =
- d. What is P(vowel, vowel, consonant, vowel). Use your calculator.

12. Describe the difference between an independent and a dependent event.