

# 5<sup>th</sup> Grade



Phase IV May 18 – June 5, 2020

Name: School: Grade Level: Teacher:

**NPS Curriculum & Instruction** 

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Social Studies Learning in Place Plans Fifth Grade: May 18 - 22				
Learning Experience 1 Learning Experience 2				
Virginia has changed in many different ways since the 1600s when Europeans first arrived to settle. Complete the "VIRGINIA TODAY" map showing different ways Virginia has changed. After completing map, respond to the following prompt on a sheet of paper: During the twentieth century and beyond, Virginia changed from a rural, agricultural society to a more urban, industrialized society. Explain how each of the symbols on your map supports this.	Ashburn, VA is considered "The Center of the Internet". Read and answer the questions for the infographic "WELCOME TO ASHBURN, VA!"			

Social Studies Learning in Place Plans						
Fifth Grade: May 26 - 29						
Learning Experience 1 Learning Experience 2						
<ul> <li>Virginia's economy has changed very much since Jamestown was established in 1607. Create a timeline that shows how the economy has changed since 1607 until today. You may use the template provided or create your own.</li> <li>Questions to ask yourself while completing the timeline: <ul> <li>What did they produce large amounts of to sell to Europe in the 1600s?</li> <li>Who contributed to the economy and when did they arrive?</li> <li>What product was discovered in the southwest area of Virginia and created a new industry?</li> <li>What economic changes happened after the Civil War?</li> <li>What was Virginia's economy like in 2000? What about today?</li> </ul> </li> </ul>	<ul> <li>Photo Analysis: Study the attached photograph "Cotton Bales, Norfolk" and answer the questions under the photo on a sheet of paper.</li> <li>Remember when analyzing a photo ask yourself: <ul> <li>What do I see?</li> <li>When/where could this photo have been taken?</li> <li>Why would someone take this photo?</li> <li>What objects/people do I see?</li> </ul> </li> </ul>					

Social Studies Learning in Place Plans Fifth Grade: June 1 - 5					
Learning Experience 2					
Complete the Virginia Economics Review Questions using what you learned luring the learning experiences dated from the week of April 27 <sup>th</sup> through low.					

# **VIRGINIA TODAY**



DIRECTIONS: 1. Read each box below. Make a simple symbol for each fact.

- 2. Create a map legend to show what your selected symbols represent.
- 3. Add symbols to the map to show the areas where each industry is associated.

During the 20th century, Northern Virginia experienced growth due to an increase in the number of federal jobs in the region.	In the late 20th century and early 21st century, Northern Virginia and the Coastal Plain (Tidewater) region have grown due to computer technology.
Access to deepwater ports and proximity to the	Today, coal from the Appalachian coalfields is less crucial to
Chesapeake Bay and the Atlantic Ocean make shipbuilding,	Virginia's economy since there has been a shift to other
fishing, crabbing, and oyster harvesting possible.	sources of energy.



Graphic from Five Ponds Press and Washington Post

#### **Comprehension Questions for Ashburn, VA Infographic**

**Directions:** Read and analyze the infographic for Ashburn, Va. Answer the following questions.

1. Where is Ashburn located? (Hint...find the section about the county Ashburn is in.)

2. Infer: How could this location contribute to Ashburn's success in technology?

3. Look at this image from the graphic.



What cities have higher data center density than Ashburn?

4. Who and what creates all the data that is collected?

NAME:

### Timeline Title: \_\_\_\_



#### **Cotton Bales, Norfolk**



- 1. Observe: What do you see in the photograph? List the people, objects, and activities you can clearly see in the photograph.
- 2. Infer: When and where do you think this photograph was taken? Why are these people here, doing what they are doing? Why was the photograph taken?
- 3. Identify something in this picture that you would call "old." Identify something in this picture that you would call "new." Explain.
- 4. How do you think they are going to transport these cotton bales and where are they going to send them to?
- 5. What would be a good title for the photo?
- 6. Write a question you would like to ask the people in the photo, if they were still alive today?

# THE VIRGINIA-CLASS

Using expertise from more than half a century of building submarines, NEWPORT NEWS SHIPBUILDING and GENERAL DYNAMICS ELECTRIC BOAT are constructing the newest fast attack submarines – the Virginia-class, the most advanced submarine in the world, ready for 21<sup>st</sup> century missions.

#### TOMAHAWK MISSILES, Vertical Launch tubes or large diameter payload

tubes, starting on North Dakota (SSN 784), MK-48 torpedoes and unmanned undersea vehicles are among many of the ADVANCED WEAPONS of the Virginia-class.

#### STATISTICS

REPLACES: LOS ANGELES-CLASS DISPLACEMENT: APPROX. 7,800 TONS LENGTH: 377 FEET BEAM: 34 FEET

The submarines have a pair of extendable "PHOTONICS MASTS" outside the pressure hull. Each contains high-resolution CAMERAS with lightintensification and infrared sensors, an infrared laser rangefinder, and more.

#### MILLIONS OF PARTS come from 5,000 Suppliers across all

50 STATES.

# 1000

#### THOUSANDS of shipbuilders at NEWPORT NEWS SHIPBUILDING

and **ELECTRIC BOAT** build each frame and compartment with attention to every detail.

#### MULTI-MISSION READY

- Launches TOMAHAWK missiles at targets ashore
   Conducts surveillance on both land and sea
   Detects and destroys
  - threats to a carrier or expeditionary strike group
    Deploys Special Forces

#### A versatile torpedo room can accomodate a large crew of SPECIAL OPERATIONS

designed to last the life of

**One NUCLEAR REACTOR** 

the ship quietly powers the submarine for speeds of 25+ knots (28+ mph).

FORCES for prolonged deployments. The class includes large lock-in/lock out chambers for divers.



#### TEAMING ARRANGEMENT

**NEWPORT NEWS SHIPBUILDING** is teamed with **GENERAL DYNAMIC ELECTRIC BOAT** to build *Virginia*-class submarines. Newport News Shipbuilding builds the stern, habitability & machinery spaces, torpedo room, sail and bow. Electric Boat builds the pressure hull, engine room and control room. Newport News Shipbuilding and Electric Boat each perform work on the reactor plant as well as alternate on the final assembly, test, outfit and delivery.

# **Questions for the Infographic: "The Virginia-Class"**

1. Scan over and read the headings, subheadings and pictures on this infographic. What is the main idea of this infographic?

2. Who builds the Virginia-Class Fast Attack Submarines and where are they built?

3. How long can the Virginia-Class submarine stay submerged and how does it get its power?

4. "Thousands of shipbuilders at Newport News Shipbuilding and Electric Boat build each frame and compartment of the submarine with attention to every detail." How would this benefit Virginia's economy?

#### **Virginia Economics Review Questions**

- 1. Why does the federal government have a significant impact on Virginia's economy?
  - a. The government built a large railroad hub in Virginia.
  - b. There were multiple inland ports created in Virginia to ship goods overseas.
  - c. Many federal workers live/or work in Virginia.
  - d. A large shipbuilding industry in Virginia was created after the Civil War.
- 2. Which areas of Virginia have grown during the late 20th century and early 21st century due to computer technology?
  - a. Northern Virginia and the Appalachian Plateau
  - b. Coastal Plain (Tidewater) region and Shenandoah Valley
  - c. Areas near the Chesapeake Bay and the Appalachian Plateau
  - d. Northern Virginia and the Coastal Plain (Tidewater) region



- 3. The picture above shows a major part of Virginia's economy known as
  - a. Mechanization
  - b. Tourism
  - c. Manufacturing
  - d. Technology
- 4. Working in private health care, in public schools and on military bases are examples of which important industry in Virginia's economy?
  - a. Manufacturing industry
  - b. Service industry
  - c. Agricultural industry
  - d. Transportation industry

- 5. <u>Currently</u>, what is Virginia's most valuable source of agricultural income?
  - a. Tobacco
  - b. Chemical goods
  - c. Apples
  - d. Livestock and livestock products
- 6. How does Virginia's transportation system contribute to the commonwealth's role in the global economy?
  - a. It increases the number of jobs in private health care systems.
  - b. It helps agricultural industry by shipping livestock.
  - c. It decreases opportunities for tourism around the state.
  - d. It moves raw materials to factories and finished products to markets.
- 7. Which 2 bodies of water make shipbuilding, fishing, crabbing and oyster harvesting possible for Virginia's economy?

Atlantic Ocean	Lake Drummond	Chesapeake Bay	Pacific Ocean
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8. Which 2 factors make agriculture an important industry in Virginia?

Fertile Soil	Transportation System	Favorable Climate	Tourism
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#<u>NPS LITERACY</u>, STRATEGIC. AUTHENTIC. ENGAGED.

# NPS Learning in Place English Grade: Fifth Grade

DEA 14,2

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 10	Preview the article <b>Who</b> <b>Wants a Spiny Snack?</b> Be sure to check the title, headings, photos, captions, and the diagram. Make a list of each text feature and jot down notes about why the author may have included it. Read the article <b>Who</b> <b>Wants a Spiny Snack?</b> Annotate the text while you read.	Reread paragraphs 1 – 3 of <i>Who Wants a Spiny Snack?</i> Review the <b>Text Structures</b> <b>Anchor Chart.</b> Decide what text structure the author mainly used. Draw the correct graphic organizer from the anchor chart in your journal and fill in the information from those paragraphs.	Reread paragraphs 4-7 of <i>Who Wants a Spiny Snack?</i> Review the <b>Text Structures</b> <b>Anchor Chart.</b> Decide what text structure the author mainly used. Draw the correct graphic organizer from the anchor chart in your journal and fill in the information from those paragraphs.	Reread paragraphs 8-10 of <i>Who Wants a Spiny Snack?</i> Review the <b>Text Structures</b> <b>Anchor Chart.</b> Decide what text structure the author mainly used. Draw the correct graphic organizer from the anchor chart in your journal and fill in the information from those paragraphs.	Reread <b>Who Wants a</b> <b>Spiny Snack?</b> and answer the questions. In your journal, write down 2 surprising facts that you learned from the article. Write the main idea of the article and give 3 facts from the article to support it.
Week 11	Memorial Day	Read <i>The Wailing Well</i> Complete the Story Plot graphic organizer (rollercoaster). Use the information in the graphic organizer to write a summary about the story. **Remember, the summary tells only the main parts of the story, not the details.	Read Saturday at the Amusement Park Annotate the text while you read. Complete the graphic organizer, using what you already know to make predictions about John's Day.	Reread <b>Saturday at the</b> <b>Amusement Park</b> Review the making predictions graphic organizer. Write a conclusion to the story using your prediction and what you think will happen with John and his cousin.	Read <b>Brady's Secret</b> Annotate the text while you read. Answer the questions that follow at the end of the story.
Week 12	Read <i>Why are People</i> <i>Afraid of Spiders?</i> Annotate the text while you read. Review the <b>Text</b> <i>Structures Anchor Chart.</i> Decide what text structure	Reread <i>Why are People</i> <i>Afraid of Spiders?</i> Answer the questions below the passage. Be sure to go back to the text, reread, and justify your answers.	Read <b>Animal Sanctuary</b> Annotate the text while you read. Review the <b>Text Structures</b> <b>Anchor Chart.</b> Decide what text structure the author mainly used. Draw the	Reread <b>Animal Sanctuary</b> Answer the questions below the passage. Be sure to go back to the text, reread, and justify your answers.	Write a five-paragraph essay (introduction, 3 body paragraphs, & a closing) about your experience being home from school this year. Tell how you felt, what you did, and your hopes

	the a Draw orgar chart fill in those	uthor mainly used. the correct graphic nizer from the ancho in your journal and the information fror paragraphs.	Are you afraid of spiders Why or why not? Explain using evidence from the	? n, text.	correct graphic organizer from the anchor chart in your journal and fill in the information from those paragraphs.	lf you would zoo or Explain specifi details	were a wild animal, you rather be in a an animal shelter? n your answers givin c reasons with	for the future. Go through the <u>entire</u> writing process (plan, draft, revise, edit).
Read 14.2	Read     Read a book of choice and record it on the reading log each day.       14.2							
Materials	All re	ading materials are i	ncluded, pens/pencils, pape	r				
2		Text	Structure	An	chor Chart		Annotate To Read <b>#</b> Thi	ext While You Read nk <b>*</b> Stop <b>*</b> Jot
Text Structu	ire	Author gives	Key Words	Ċ	Graphic Organizer		45	
Chronologic Sequence	al/	A main topic supported by details presented in time order; a sequence of events or ordered steps in a process	first, second, last, before, until, on (date), not long after, after, at the same time, at (time), by then, following, finally, by, lastly, 1, 2, 3,	First	► Then ► Next ► Finall	y		<u>erline</u> or <mark>highlight</mark> the ortant/key ideas. ? Where? When? Did what? Why? How?)
Cause and Efj	fect	Reasons why something happens or exists	since, because, this led to / leads to, on account of, due to, may be due to, as a result of, for this reason, consequently, then, so, therefore, thus so that, in order to		Effect Cause Cause			a or record words or phrases
Problem Solut	tion	A problem, its causes, and its solution(s)	one reason for that, a solution, try, attempt, have solved this problem, by, a problem, has caused, so, to / in order to	Pro	oblem Solution		that you	are confusing or unknown to
Compare and Co	ontrast	Likenesses and differences between two or more subjects or topics	one reason for that, a solution, try, attempt, have solved this problem, by, a problem, has caused, so, to / in order to		Subject Subject			
Descriptive/ Ma and Supporting I	in Idea Details	A list or set of characteristics, such as attributes, facts, and details about a general or specific topic	for example, to begin with, in front, beside, near, has/have, is/are, eats, lives, looks, some characteristics are, for instance		Detail Main Metail Detail Detail		Jot (Sur Exp	notes restating the author's ideas. nmarize, Question, Sketch, ain)

READ 14.2 READING LOG				
Date	Number of Pages Read	Title	#summary	
3-12-20	10	Cinderella	$\label{eq:model} \texttt{#mistreatedgirlmeetsprincelosesshoe} and \texttt{liveshappilyeverafter}$	

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Who Wants a Spiny Snack? ReadWorks

#### Who Wants a Spiny Snack?

#### Who Wants a Spiny Snack?

This article is provided courtesy of the American Museum of Natural History.

Not many animals! How the spiny puffer stays safe in the ocean



- 1 A shark glides through the warm water, searching for its next meal. It spots an ordinary brown fish swimming slowly in the clear waters ahead.
- 2 But as the shark approaches, PUFF-PUFF! The fish puffs out into a round, spiny ball. The startled shark swims away. The pufferfish is safe for now - at least until the next shark or big fish swims by.



3 The ocean can be a dangerous place for small fish like the puffer. Its waters are full of predators like sharks, squid, and bigger fish that eat small fish. But pufferfish have adaptations that protect them from predators.



4 All animals have adaptations to stay alive. An adaptation is a body part or behavior that helps an animal live in its environment. Predators have adaptations that help them hunt. A shark's powerful, torpedo-shaped tailfin and sharp teeth are two adaptations.

Other animals have adaptations that provide protection from predators. These animals may be fast enough to escape predators. Or they might use camouflage, special patterns or colors that help them hide in their environment.



Can you find the flounder?

6 But some animals don't run or hide. They have bodies that are hard to eat. Just picture the sharp spines of a porcupine, hedgehog, or sea urchin. Few predators are large or tough enough to make a meal of those animals!

AMERICAN MUSEUM & NATURAL HISTORY

#### ReadWorks

#### Who Wants a Spiny Snack?



Porcupines have long sharp spines that protect them.

<sup>7</sup> Some toads and snakes have their own way to discourage predators. They puff themselves up to look larger. The bigger an animal, the harder it is to catch and eat. Pufferfish combine both of these adaptations. They puff up AND they have long, sharp spines.



A pufferfish's skin is hard and covered with sharp spines.

8

Swimming along, a pufferfish looks like any other fish. But when it is threatened, it swells up suddenly like a big balloon. When this happens, it's easy to see why some people call it balloonfish. But this fish is no soft, squishy balloon. Its skin becomes rigid, with sharp spines sticking out in all directions. Usually these spines lie flat against the side of the fish. When the fish puffs up, the outer skin stretches out and pulls the spines up.

How does the pufferfish make this amazing transformation?

AMERICAN MUSEUM & NATURAL HISTORY

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Who Wants a Spiny Snack?

9 Despite its nickname, it doesn't blow itself up with air like a balloon. Instead, it fills up with water. The fish pumps a huge amount of water through its mouth into its stomach. Filled with water, its stomach becomes almost one hundred times larger. The stomach can expand like this because it's usually crumpled into many tiny folds. As water rushes in, the stomach unfolds. To make room for the swelling stomach, other organs like the liver and intestines are pushed to the side.



10 A spiny puffer can change from an ordinary-looking fish into a menacing spiny ball in a few seconds. Then only the biggest animals dare to eat it. The ocean may be full of dangers, but adaptations like sharp spines and puffing up help keep the puffer safe.

D AMERICAN MUSEUM & NATURAL HISTORY

ReadWorks	Who Wants a Spiny Snack? - Comprehension Questions	ReadWorks	Who Wants a Spiny Snack? - Comprehension Questions						
Nama	Deter	5. What is the main idea of thi	s text?						
<b>1.</b> At the beginning of the text, what of	does the fish do when the shark approaches?	A. The ocean can be a dangerous place for small fish like the pufferfish because its waters are full of predators.							
A. It puffs out into a round, spiny ball. B. It swims away, startled. C. It swims slowly, searching for a meal.		B. Predators like sharks have adaptations that help them hunt other animals.							
		C. Many animals have sharp spines, including porcupines, hedgehogs, sea urchins, and							
		pufferfish.							
D. It attacks the shark with its spir	nes.	D. Adaptations like sharp s	pines and puffing up help keep pufferfish safe from predators.						
2. What does the author describe in t	this text?	6. Read these sentences from	the text.						
A. why different kinds of sharks ha	ave different adaptations	"Swimming along, a pufferfish looks like any other fish. But when it is threatened, it swells up suddenly like a big balloon."							
B. the different predators that are	likely to hunt porcupines								
C. what happens when a predator	r eats a spiny pufferfish								
D. how a pufferfish puffs up into a	round spiny ball	why might the author have co	mpared the puffertish to a balloon with this simile?						
<ul><li>3. Read these sentences from the text.</li><li>"Some toads and snakes have their own way to discourage predators. They puff themselves up to look larger. The bigger an animal, the harder it is to catch and eat.</li></ul>		A. to hint to the reader that	balloons also swell up when they are threatened						
		B. to imply that balloons also look like normal fish when they are not blown up C. to help the reader understand what a pufferfish looks like as it swells up D. to suggest that pufferfish and balloons are similar in lots of ways							
					Pufferfish combine both of these ada spines."	aptations. They puff up AND they have long, sharp	7. Choose the answer that best completes the sentence.		
					Based on this evidence, why might a	a pufferfish puff itself up?	Predators have adaptations that help them hunt, a shark's powerful, torpedo-shaped tailfin and sharp teeth are two adaptations.		
A. to try and convince a predator t	that the pufferfish is a toad or a snake								
B. to be able to hunt, catch, and e	at other fish more easily	R. For example							
C. to prepare itself to fight off a pre	redator's attack	C. As a result							
D. to make the pufferfish appear of	difficult to catch and eat	D. At first							
4. Why might the author have include	ed the images of the flounder and the porcupine?	8. What is an adaptation?							
A. to force the reader to decide whether the second s	hich animal looks more like the pufferfish								
B. to show the reader examples of from predators	f different animals with adaptations that protect them	<b>9.</b> What is the purpose of a puthe text.	Ifferfish's spines? Support your answer with evidence from						
C. to suggest that the flounder and pufferfish at fighting off predators	C. to suggest that the flounder and the porcupine would probably be better than a pufferfish at fighting off predators		10. Why might a large predator and a small animal that it eats have different						
D. to prove that animals that live of different from each other	on land and animals that live in the ocean are very	adaptations?							
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#### Story Summary:



Wailing Well by Kelly Hashway



"I dare you!" Eric said. Charlie couldn't pass up a dare. She was the toughest kid in the fifth grade. She wasn't going to let a little thing like fear ruin her reputation.

"No problem." Charlie shoved her hands in her pockets before anyone could notice they were shaking. So what if there was a kid-hungry troll living in the well on the abandoned lot? She could take a quick peek and run before it climbed up to eat her— right?

"You don't have to do this," Alyson said. "Yeah, Charlotte. We'll understand if you're too scared," Eric taunted. Charlie hated being called Charlotte. It sounded so girly.

"I'm not scared of a silly story." She pushed through the crowd of kids and marched to the abandoned lot. Her palms were sweaty. No one went near the "Wailing Well." A stray cat had jumped on the edge of it and something pulled it into the well. It happened so fast that no one saw what did it. But now a horrible wailing came from the well. Charlie wasn't sure who had come up with the troll theory, but she hoped that was all it was—a theory.

Wailing came from the well and Charlie froze. "Scared?" Eric yelled. Charlie was scared, but she wouldn't admit it, especially to Eric. "You're the one that's scared. Why else would you dare people to look in the well? You're too chicken to do it yourself!" "Look with her, Eric," Alyson said. "Yeah," the other kids said.

"Fine." Eric walked over to Charlie. He gulped, and for the first time, Charlie realized he wasn't so tough. He put on a good show, but he was all talk. She wondered if he thought the same about her.

Charlie grabbed Eric's sleeve and charged at the well. Something hairy moved inside. Yellow eyes glowed up at her. The wailing was replaced by a scratching sound, like nails on rock. The creature was climbing up to get them! Eric screamed and ran back to the bus stop.

The sun peeked out from behind the clouds, and Charlie squinted at the creature. She cranked the bucket, lowering it into the well. She heard a soft thump and cranked the bucket back up. "Are you crazy?" Eric yelled. Charlie pulled a gray kitten out of the bucket. "The cat didn't get pulled into the well. It fell. It got hurt, too. That's why it was wailing." "What are you going to do with it?" Alyson asked. "Bring it to the vet," Charlie said. "I'll put up some fliers, and if no one claims it, I'll keep it."

She scratched the top of the kitten's head and it purred. "What will you name it?" Alyson asked. "Troll," Charlie and Eric both said.

#### Saturday at the Amusement Park

"I think this is supposed to be fun," John thought, but he couldn't get his heart to stop pounding. From the moment they arrived at the amusement park, he was regretting letting his cousin persuade him to come. His intense fear of heights usually meant that he stayed clear of the roller coasters. Somehow his bossy cousin convinced him that spending the day at the amusement park was a great idea. "Oh, come on, John. Don't look so scared. This is going to be great," Dale said. "OK, yeah, I'm cool," John said in a voice that was a little more shaky than he would have liked. "What do you want to do first?" Dale asked. "Ummm...what about the games? Maybe we can try and win a stuffed animal for your sister." "Yeah right. If we're ever going to get on the Rocket Blaster we need to head there right away. The line gets really long. Hurry!"



Conclusion:

#### Brady's Secret

Quiz

Brady was doing anything but jumping for joy that the beginning of school was right around the corner. He was about to enter fifth grade and at the end of fourth grade he started having problems seeing the dry erase board and would have to squint to see what the teacher was writing. His vision also began getting fuzzy afterschool as well when he was doing his homework and he even struggled seeing clearly when he was playing soccer with his friends. Brady had many concerns about not being able to see things clearly. He had always received straight A's in school, and he took pride in turning in quality homework. If he was unable to copy notes correctly that his teachers were writing on the dry erase board, how would he be able to study at night and complete his assignments correctly? Brady didn't want to tell anyone he was struggling to see. He did small things like sit in the front row in class and ask friends for copies of their notes; but he never let anyone know that he was having problems with his vision. His science teacher had noticed he was looking quite distraught trying to copy his notes and asked Brady if something was wrong. Brady was embarrassed and told him that he was fine. Brady has always been good at everything he put his mind to and no matter how hard he tried he wasn't able to make seeing any easier. At home, Brady was really struggling with the small print on the computer screen while he was researching for a report. He had to make the font on his report much bigger than usual just to see what he had written. Brady's mother walked by his bedroom and noticed that he had enlarged the computer screen and she stated, "Okay Brady, that's it; we are going to Dr. Wisear's office first thing Monday morning and have him check your eyes." Monday rolled around and Brady was dreading the thought of possibly getting glasses. When he arrived at Dr. Wisear's office; he was relieved to learn that many kids his age wore glasses and that there were thousands of different styles to choose from. After the appointment Brady and his mother went to the optical store and Brady chose glasses that were similar to those of one of his favorite television stars. After the appointment his mother said he could take the rest of the day off; but Brady insisted that he go back to school as he was extremely excited to check out his new vision and copy down notes from the back row.



#### Answer the following questions about this story:

1. Choose three character traits to describe Brady, use examples from the text to explain why you chose each trait.

2. Explain why you think Brady didn't want to admit his vision problems to anyone.

3. Write another possible title for this passage other than "Brady's Secret".

4. Create a cause/effect graphic organizer that shows at least two sets of causes & effects from this story.

#### Why Are People Afraid of Spiders?

1. Humans are a resilient species. We have survived war, disease, flood, and famine. We have journeyed far, from the dark depths of the oceans to the perilous peaks of the tallest mountains, and even to the moon. So how can a creature small and fragile enough to die beneath a toddler's shoe reduce so many of us to a quivering mess, screaming from atop a table for someone else to take care of the problem? Why do so many people suffer from arachnophobia, the fear of spiders?

2. Spiders are predators and, in many cases, they use their bites to overpower their prey. The majority of spiders are no real threat to humans, their bites simply causing red, irritated skin. The dangerous exceptions in the United States are the black widow and brown recluse spiders. The black widow secretes one of the most powerful venoms of any animal. Within 20 minutes, victims may suffer muscle cramps, stomach pain, faintness, vomiting, and even trouble breathing. Brown recluse venom, more powerful than a rattlesnake's, can damage cells and tissues. Remember, this is just in the United States; worldwide there are about 200 spiders with a serious, potentially deadly bite.

3. To make matters worse, spiders -kind of unavoidable. Afraid of clowns? Skip the circus. Scared of drowning? Don't go swimming. Petrified of spiders? You're out of luck. There are roughly 40,000 species of these eight-legged pests. They inhabit every continent on Earth except Antarctica. There are spiders capable of capturing and eating birds and lizards, such as the largest spider on the planet, the foot-long Goliath birdeater. Some, like the ant-mimicking jumping spider, use the wolf-in-sheep's-clothing trick to ambush their prey. Some have the ability to develop new hunting strategies. Some spiders are social, living in webs with as many as 50,000 others. Spiders, spiders, spiders, SPIDERS!

4. Perhaps the best explanation for arachnophobia may be the simple fact that spiders are as bizarre as aliens: eight legs, eight eyes, web-making spinnerets in their rears. The females of some species, such as the black widow, eat the male at the end of their time together. The females go on to lay as many as 3,000 eggs. Humans instinctively fear what is different, and spiders are, to say the least.

5. Superior intelligence and determination have carried humanity to the top of the food chain. There are approximately seven billion of us. We are, it would appear, unstoppable. Do not be surprised, however, when you hear anyone from a small child to a full-grown man shriek, "Aaaah! A spider!"

- 1. What does the word 'resilient' mean as it is used in the first paragraph?
- A being, having or containing a great number
- B able to regain strength, health or success after a bad event
- C having or showing wisdom D showing anger or violence
- 2. What is the purpose of spider venom, according to the passage?
- A to attract a mate
- B to defend against predators
- C to weaken prey
- D to preserve food
- 3. In paragraph 1, the word 'perilous' means
- A surrounded by vegetation
- B impossible to reach
- C beautiful
- D dangerous
- 4. Use of the words 'dark depths' and 'perilous peaks' is
- A alliteration.
- B hyperbole.
- C onomatopoeia.
- D personification.

5. According to the passage, the black widow's bite can cause all of the following symptoms except

A shortness of breath.

B fainting.

- C muscle cramps.
- D memory loss.

#### 6. A good subheading for paragraph 4 would be

- A 'From an Egg It Hatches.'
- B 'Freaks of Nature.'
- C 'Spinning Here and There.'
- D 'Arachnophobia.'



Tobey had always liked zoos. It was great to see animals that didn't live around his house. Around his house he could see cows or horses, but he couldn't see zebras or lions. He could see cardinals and blue jays, but he couldn't see monkeys or gators. Zoos were a great and fascinating way to spend his weekend learning about animals.

Today, he was trying to experience something a little different. He'd learned that near his house there was an animal shelter. It wasn't a regular shelter, though. He'd been to those before, where you could adopt dogs, cats, and even an occasional pot-bellied pig or goat. This place he was going to had lions and tigers and bears. It wasn't any regular shelter. As he arrived, he was surprised, because he heard lions even from the parking lot.

The place was small, but nicely kept. It was clean and the volunteers working at the entry were very helpful. He and his family toured the place at their own pace, examining the cages and habitats the animals lived in. Tobey was immediately struck by the differences between this place and a zoo.

Zoos had beautiful habitats set up for each animal, but you could not get near the animals at all. At this shelter, he was almost close enough to reach out and touch the animals, even if there were two fences between him and the animals. There weren't as many people, either, so it seemed like a more personal experience. The paths were narrow and covered with trees that made the animals feel more at home and gave them shade. It was interesting to stare a lion in the eyes when you could almost reach out and touch it. It was fun to watch the bears pace back and forth and wiggle their lips at you with great expressions. They were silly creatures. Then there were leopards lazing in the midday heat and monkeys grooming themselves. It was a very neat experience.

The best part about the place was the stories. Each animal had a story posted up on the side of their cage. Each had been rescued from abuse or taken when they were no longer wanted. These were hard luck stories with a happy ending. Someone at this shelter had stepped up to take care of the animals, and now Tobey could enjoy meeting them and learn from them.

When it was finally time to go, they all thanked the volunteers and made a donation. Shelters always needed money, food for animals, and help. It made them feel good to be helping out any way they could. It was a great place, and Tobey couldn't wait to return.

<ol><li>What is different about this animal shelter compared to the</li></ol>	he other ones Tobey has seen?
A. they have wild animals, not just dogs and cats	
B. this one is very far away	4. Which of the following is NOT a reason why Tobey likes this shelter better than a zoo:
C. this one is free	A. they can get closer to the animals
D, this one has only injured animals	B. there is a rescue story for each animal
	C. they have better snacks at the shelter
3. What kind of animals does the shelter NOT have?	D. there are less people so it's nicer and quieter
A. zebras	5. How does Tobey feel at the end of the story?
B. lions	A. He thinks the zoo is nicer.
C. tigers	B. He is scared to come back.
D. bears	C. He is sad to leave.
	D. He is happy to donate money to a good cause.

#### 1. Why do these types of animal shelters/sanctuaries exist?

Norfolk Public Schools							
Science Learning in Place Plan: Grade 5 Lessons							
Week 10: May 18 – 22, 2020 (Review: Light and Sound)							
Monday	Tuesday	Wednesday	Thursday	Friday			
Students will read the Interactive Notebook Passage entitled " <b>Light Waves</b> " and answer questions for paragraphs 1 - 5. Students will justify their thinking by highlighting evidence from the text.	Students will reread the Interactive Notebook Passage entitled " <b>Light Waves</b> " and answer questions for paragraphs 6 - 10. Students will justify their thinking by highlighting evidence from the text. On a separate sheet of paper students will divide the page into 10 sections and illustrate each paragraph based on information that was learned.	Students will read the Interactive Notebook Passage entitled " <b>Sound Waves</b> " and answer questions for paragraphs 1 – 3. Students will justify their thinking by highlighting evidence from the text.	Students will reread the Interactive Notebook Passage entitled " <b>Sound Waves</b> " and answer questions for paragraphs 4 - 6. Students will justify their thinking by highlighting evidence from the text. On a separate sheet of paper students will complete paragraph illustrations.	Students will read and complete the <b>Colorful Lights</b> Scientific Method Task Card. Students will observe the image of the sound wave on the <b>Science Talk</b> page. Form a list of essential vocabulary to describe the image and explain what they observed a paragraph including a topic sentence, 5 detail sentences, and essential vocabulary.			
We	ek 11: May 25 – 29, 202	o (Review: Plant Adap	tations and Food Web	os)			
Monday	Monday Tuesday Wednesday Thursday Friday						
Students will read the Interactive Notebook Passage entitled <b>"Food Webs</b> " and answer questions for paragraphs 1 – 3. Students will justify their thinking by highlighting evidence from the text.	Students will reread the Interactive Notebook Passage entitled " <b>Food Webs</b> " and answer questions for paragraphs 4 - 5. Students will justify their thinking by highlighting evidence from the text. On a separate sheet of paper students will complete paragraph illustrations.	<ul> <li>Who Can Go with the Flow?</li> <li>Pg. 156 – 157</li> <li>Active Reading</li> <li>Red Arrow Question</li> <li>Why would a stiff plant not grow will in a fast-moving stream?</li> </ul>	<ul> <li>Who Can Take the Heat?</li> <li>Pg. 158 – 159</li> <li>Active Reading</li> <li>Red Arrow Question</li> <li>Why would a dessert plant be more likely to have spines that a plant in an environment such as a rain forest?</li> </ul>	<ul> <li>Who Can Take the Cold?</li> <li>Pg. 160 – 161 <ul> <li>Active Reading</li> <li>Red Arrow Question</li> <li>Describe the adaptations of the Antarctic Pearlwort and the Prairie Crocus?</li> </ul> </li> </ul>			
	Week 12: June	1 – 5, 2020 (Review: S	olar System)				
Monday	Tuesday	Wednesday	Thursday	Friday			
The Sun-Earth-Moon System Pg. 300 – 301 Active Reading How Do They Move?	Seasons Pg. 302 – 303 Active Reading Home Sweet Home	Moon Phases Pg. 318 – 319 Active Reading Do the Math!	Planets Near and Far Pg. 330 – 331 Active Reading Do the Math!	Sum it Up! Pg. 308 Space Exploration You Decide Pg. 341			

#### **Light Waves**

There are many different kinds of waves. Waves are the way energy moves from place to place. **Sound** waves let us hear someone talking as sound waves move from our mouth to someone's ear. **Light waves** let us see when it's dark as light waves move from a light bulb to a dark room to our eyes.

#### The Basic Parts of a Transverse Wave

Light reaches us on **transverse waves**. As we can see in Diagram 1, the high point of a transverse wave is called the **crest** while the low point is called the **trough**. Waves can be measured in **wavelengths**. A wavelength is the difference between one wave crest (or trough) to the next wave crest (or trough). Wavelength can be measured from any point on a wave as long as it is measured to the same point on the next wave.



#### How Light Travels

Scientists have discovered that light travels in both waves and as tiny particles called **photons**. In both wave and particle (photon) form, light is energy. Light waves travel in straight paths called **rays**. Unlike sound, where waves have to travel through matter to be heard, light waves do not have to travel through matter to be seen. Instead, rays travel in a straight path until they hit an object. A ray's straight path is the *path* of light. Parallel rays grouped together represent a *beam* of light.

#### **Opaque, Transparent, and Translucent**

When a light wave hits an object it will either bounce off (reflection), bend (refraction), pass through (transmitted), or be **absorbed** as heat. Some objects transmit light waves better than others. **Opaque** materials do not allow light waves to pass through. Reynolds wrap is an example of an opaque material. **Translucent** materials allow light to pass through but not in a straight path. Wax paper is an example of a translucent material. **Transparent** materials allow light waves to pass through but not in a straight path. Clear glass is an example of a transparent material.

#### The Visible Spectrum

Light waves, as compared to sound waves, are extremely fast. In fact, it only takes light from the Sun less than eight and a half minutes to travel 150 million kilometers or 93 million miles to Earth. Light waves move as **transverse waves** (see Diagram 1) and can move through a vacuum (empty space) at a speed of approximately 186,000 miles per second.

Light has both magnetic and electric fields. Scientists call this **electromagnetic radiation** (light). Sunlight consists of the entire electromagnetic spectrum. The only difference between the different types of electromagnetic radiation is the amount of energy. The wavelengths we can see with our eyes makes up a very small part of the electromagnetic radiation spectrum. We see visible light as the colors of the rainbow. These "visible" waves make up the **visible spectrum**.

Each of these visible waves is a different **wavelength** and our eye sees each one as a different color. The longest wave that we can see is called the color **red**. The shortest wave that we can see is called the color **violet**. The waves that make up the visible spectrum are **red**, **orange**, **yellow**, **green**, **blue**, **and violet** (**ROYGBV**).



#### Frequency

Electromagnetic radiation (light energy from the Sun) can be identified by its wavelength as well as the **frequency** of its wavelength. The frequency is the number of waves passing a given point in one second. If the frequency increases, the amount of energy increases. In the visible light spectrum (see Diagram 2), violet has the greatest frequency and the most energy. The red wavelength has the lowest frequency and the lowest amount of energy.

#### Reflection of Light

Red

The Visible Li	ght Spectrum
	M2-1-4
en ngλ	Short $\lambda$
ow f	<sup>High f</sup> Violet

As we can see in the diagram, black and white are not seen on the **visible spectrum**. That's because black is not actually a color. Black is the total absence of color or reflected light. We see black when a material, such as a driveway, absorbs all the visible light and no light is reflected back. White is not a color either. White is actually a reflection of all the colors of the visible light spectrum. In fact visible light, or the mix of ROYGBV, is sometimes referred to as **white light**.

#### Refraction of Light

To see the different colors that make up white light, we need to use a **prism**. When white light passes through a glass prism, it **bends** and changes direction. This bending of light is called **refraction**. Each of the waves in the visible spectrum bends differently, so we see different colors. Water droplets in the atmosphere act as tiny "natural" **prisms** after a rainstorm. When sunlight passes through them we see a rainbow!

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#### SOL 5.3 Light Waves

#### Paragraph 1

- What are waves?
- What are waves made up of?

#### Paragraph 2

- What are the three basic parts of a wave?
- What is the difference between a crest and a trough?
- How are waves measured?

#### Paragraph 3

- What have scientists discovered?
- What is light?
- How do light waves travel?
- How are light waves different from sound waves?
- How do rays travel?
- What do you call a ray's straight path?
- What do parallel rays grouped together represent?

#### Paragraph 4

- What four things can a light ray do when it hits an object?
- Which materials transmit light waves better than others?

#### <u>Paragraph 5</u>

- Which is faster: speed of sound or speed of light?
- How do light waves move?

#### Paragraph 6

- What is electromagnetic radiation?
- What do we call these visible waves?
- What color is the longest wave?
- What color is the shortest wave?
- What are the colors of the visible spectrum of light (in order)?

#### Paragraph 7

- What color is the longest wave?
- What color is the shortest wave?
- What are the colors of the visible spectrum of light (in order)?

#### Paragraph 8

- What is the relationship between frequency and the amount of energy?
- What color wavelength has the greatest amount of energy?
- What color wavelength has the least amount of energy?

#### <u>Paragraph 9</u>

- Why isn't black a color?
- Why isn't white a color?

#### Paragraph 10

- What can we use to see the different colors that make up white light?
- What happens to white light when it passes through a glass prism?
- What is the "bending of light" called?
- How do water droplets become tiny prisms after a rainstorm?

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#### Sound Waves

**Sound** is a form of energy that is all around us. All sound energy is produced by **vibrations** (a back-and-forth motion). All vibrating objects produce sound. Place your fingers on your windpipe. When you speak, you can feel the vibrations from the sound of your voice.

Sound travels in **compression (or longitudinal) waves**. A **sound wave** can be described as a disturbance moving through a solid, liquid, or gas (matter). Compression waves are made up of areas of increased pressure called **compressions** (like the bunched-up part of a slinky as it moves) and areas of decreased pressure called **rarefactions** (like the stretched part of a slinky as it moves). One **wavelength** of a sound wave is easiest to measure from one compression (or rarefaction) to the next; however, wavelength can be measured at any point in the wave as long as it is measured to the same point on the next wave.

#### **Compression (Longitudinal) Wave**



Notice in the diagram above that the molecules of matter move backward and forward in the direction in which the sound wave is traveling.

The amount of energy a wave carries is called the **amplitude** of the wave. As amplitude (energy) increases, the intensity and **volume** of the sound increases. A loud sound is made when many molecules are vibrated with a lot of force. A softer sound is made when fewer molecules are vibrated with less force.

For every sound you hear, some object is vibrating and producing **compression waves**. When an object vibrates very quickly the number of vibrations per minute increase and its sound becomes **higher**. When this same object vibrates more **slowly** the number of vibrations per minute decrease and its sound becomes **lower**.

We call the number of wavelengths in a unit of time its **frequency** and the highness or lowness of sound its **pitch**. Longer, larger objects tend to vibrate slower than shorter, smaller objects. This is why a trombone (larger, longer) has a lower pitch while a flute (smaller, shorter) has a higher pitch.

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## SOL 5.2 Sound Waves

#### Paragraph 1

- What is sound?
- How is sound produced?

#### Paragraph 2

- How does sound travel?
- How can a sound wave be described?
- How can a compression wave be described?

#### Paragraph 3

 Think! How would you create a model or diagram of a compression wave?

#### Paragraph 4

- What is the name of the energy sound waves carry?
- How does a sound become louder?
- How does a sound become softer?

#### Paragraph 5

- What makes a sound lower?
- What do we call the number of vibrations in a unit of time?
- What do we call the highness or lowness of sound?

#### Paragraph 6

What is the difference between frequency and pitch?

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# <u> Colorful Lights</u>

Procedure:

Anissa wants to conduct an experiment.

# <u>Anissa's question:</u>

Do different colors of light affect plant growth?

# <u>Anissa's Hypothesis:</u>

If I grow bean plants under yellow, red, and blue lightbulbs, then the bean plant under the yellow lightbulb will grow the tallest.

# Anissa's Experiment:

Draw an image of her setup. Label the drawing.



# **Science Talk**

# Essential Vocabulary: 1 4 Explain what you observed in the diagram above.

Food Webs

We have learned that within a community of living things, energy is passed from one organism to another through a **food chain**. Some food chains are long and some are short, but **all food chains begin with a producer**.

A simple food chain might begin with grass (**producer**) which is eaten by a grasshopper (**consumer**), which is eaten by a frog (**consumer**) which eventually dies and is broken down by worms (**decomposers**).

Food chains are not always so simple, however. In an **ecosystem** where living and nonliving things interact, food chains can become very complex. When food chains overlap, they are called **food webs**. Let's investigate a possible food web that could begin with an oak tree.

An oak tree produces its own food energy through the process of **photosynthesis**. Caterpillars living on the tree eat the tree's leaves for energy. Also living on the tree are beetles that eat the tree's bark for energy. Cardinals then eat the caterpillars for energy while robins eat the beetles. Squirrels eat the tree's acorns and at night become dinner for owls. As you can see, in a food web many living organisms are connected to one another **by the foods they eat and what eats them**.

What an organism eats and what eats it is called its **niche**. No two organisms fill the exact same niche, or role, in a community. In the oak tree food web, each organism has a special but very different niche in the community. For example, the caterpillars, beetles, and squirrels have different niches in the community because they eat different parts of the tree. In turn, they are eaten by different animals in the community. During its lifetime, however, an organism's niche may change. This means **that what it eats and what eats it** may change over time. How do you think the niches in the oak tree food web might change over time?

# SOL 4.5 Food Webs

#### Paragraph 1

- What do you know about a food chain?
- How do all food chains begin?

#### Paragraph 2

- What is the role of the consumer?
- What is the role of the decomposer?

#### Paragraph 3

Why can food chains become complex or complicated?

#### Paragraph 4

- How does an oak tree produce its food energy?
- What is photosynthesis?
- How are all the different living organisms in a food web connected?

#### Paragraph 5

- What is a niche?
- What can happen to <u>a</u> organism's niche during its lifetime?

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# Who Can Go with the Flow?

Some living things swim upstream while others go with the flow. Which adaptations do living things need in different water environments?

Active Reading As you read the paragraph below, circle examples of fish physical adaptations.

Tagine you live in a constantly flowing stream of water. How could you stay in the same part of the stream without being carried away? Many fish that live in streams have smooth bodies and strong tails. These characteristics help fish swim against the current. Water plants have flexible stems that allow them to bend with the flow. Many water insects are able to hold on tightly to water plants. Other insects burrow into the soil at the bottom of the stream.

This fish has a smooth, streamlined body. Its body shape allows it to <u>swim quickly in fast-moving water</u>.

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Elodea are very flexible plants, so flowing water is less likely to break them. If a piece of elodea is pulled off, though, the piece can sprout roots and start to grow in a new part of the stream. Plants in still water, such as ponds and lakes, have different adaptations. Some plants are tall and have strong stems, so they can grow above the water. Others, such as water lilies, float on the surface.

Animals that live in lakes and ponds are excellent swimmers. Many are adapted to living in deep water with little light. Catfish have whiskers that sense chemicals in the water to help them find food in the dark. Some birds wade at the shore and hunt. Their long, thin legs look like the cattails, so fish do not see them until it's too late.



Cattails grow in relatively still, shallow water, such as the water of a pond. Their stems are strong and stiff. Cattails can grow to more than 3 m tall.

<ul> <li>Compare the elodea's adaptations</li> </ul>	
with the cattail's adaptations.	
	Control and

Who Can Take the Heat?

Deserts are places that get very little rain. Some deserts are very hot. How do plants and animals live in such hot, dry places?

Active Reading As you read these two pages, circle the words or phrases that describe desert environments.

Desert plants and animals have physical adaptations that help them stay cool and conserve water. Many desert plants have waxy coatings on their stems to minimize water loss. Many of these plants have very long roots to reach water that is deep underground. Some desert plants have wide root systems that can absorb lots of water when it rains. Desert animals have physical adaptations to keep cool. Some have short, thin fur, or no fur at all.



Many reptiles live in deserts. This lizard's scales help it keep water inside its body. Jackrabbits have large ears. Their ears release body heat and help the rabbits stay coo

# ve large ears.



#### A behavioral adaptation is something an organism does to help it survive. For

example, most desert animals are active at night to avoid the heat of the day. An instinct is a type of behavioral adaptation.

They are also able to hold their

stay hidden in dark, muddy wate

An **instinct** is an inherited behavior an animal knows how to do without having to learn it. For instance, jackrabbits stay crouched in one position whenever they sense danger. This instinct helps them hide from predators.

Other behaviors help organisms survive in the desert. For example, some seeds of desert plants stay dormant, or inactive, until it rains. When it rains enough, the seeds grow quickly into plants that flower and make more seeds.

 Describe a living thing with adaptations that help it survive in the desert. Explain how each adaptation helps.



Saguaro cactus flowers open and release their fragrance at night and close the next day. It is cooler at night in the desert. As a result, the flowers do not wilt as quickly as they would during the day.



# Who Can Take the Cold?

Polar environments are very cold places. How do plants and animals survive in cold places such as Antarctica and the Arctic?

Active Reading As you read these pages, circle the words or phrases that describe polar environments

Temperatures in Antarctica rarely get above freezing—even in summer! Plants and animals that live there have adaptations to live in extreme cold. Emperor penguins have a thick layer of fat—a physical adaptation that keeps them warm on land and in the water. To protect themselves from very cold winds, male penguins huddle together in large groups. The behavior is an instinct that helps male penguins and their newly hatched baby penguins keep warm.

> Black feathers on the backs of emperor penguins absorb heat from the sun, which helps them keep warm.

The Antarctic pearlwort

of Antarctica.

grows close to the ground

in the warmer, wetter parts

The Arctic has extremely cold winters and very short summers. Arctic animals have thick fur and a layer of fat to keep in body heat. Some Arctic animals are often white in the winter, which helps them blend in with the snow. These characteristics are physical adaptations. Arctic animals also have behavioral adaptations. For example, many Arctic animals live in dens dug into the ground or snow during very cold months.

-1)

Most Arctic plants have short roots because the ground there is frozen the majority of the year. These plants produce seeds during the short summer when the ground isn't frozen. Most Arctic plants grow close to the ground, which helps protect them from strong, cold Arctic winds.

► Compare the adaptations that help the desert jackrabbit and the Arctic hare survive in their environments.

The sun, the moon, and Earth all have distinct characteristics. The sun has the largest diameter of all bodies in the solar system. An object's *diameter* is the distance from one side, through its center, to the other side.

Moon

Makeup

hot, glowing gases; mostly helium and

rocky surface with large oceans; thick

atmosphere of nitrogen and oxygen;

rocky surface; no atmosphere or water;

Earth

extreme cold and heat; no known

hydrogen

life forms

life forms

Earth

Moon

This prairie crocus has fuzzy hairs that cover its flowers and seeds. The hairs protect the plant from wind and trap heat from the sun.



Arctic hares grow white fur in winter to blend in with the snow. They sit with their paws, tails, and ears tucked in to keep from losing body heat.

# The Sun-Earth-Moon System

Earth is not alone in space. You can easily spot two other bodies in the sky—the sun and the moon. How do they all move together?

Active Reading As you read these pages, underline the main idea, and circle a sentence that supports it.

The sun, Earth, and the moon form a system in space. This system is held together by gravity. *Gravity* is a force that pulls objects toward each other. Gravity pulls Earth toward the sun, holding Earth in orbit around it. An **orbit** is the path that an object takes around another object in space. Earth *revolves*, or travels around the sun. It takes Earth about 365 days to complete one revolution.

While Earth revolves around the sun, the moon revolves around Earth. Earth's gravity pulls on the moon. Like Earth, the moon also turns on its axis. It takes about a month for the moon to complete one rotation. During the same period of time, the moon makes one complete revolution around Earth. As a result, the same side of the moon always faces Earth.

#### Sun

The sun is so large that about 1 million Earths could fit inside it. The sun's gravity holds the Earth-moon system in place. Earth spins quickly—more than 1,600 km/hr (1,000 mi/ hr) at its equator. As Earth spins, it also speeds around the sun at more than 107,000 km/hr (67,000 mi/hr). Earth and the moon are relatively close to one another. They are about 382,000 km (237,400 mi) apart. In contrast, Earth is about 150 million km (93 million mi) from the sun.

#### How Do They Move?

Age

about 4.6 billion

about 4.5 billion

at least 4.5 billion

vears old

vears old

years old

Diameter

1,391,000 km

(864,400 mi)

12.756 km

(7.926 mi)

3.475 km

(2,159 mi)

The arrows in the picture show the two types of movements that Earth makes in space. Label each arrow with the movement it shows. Then, explain how Earth moves.



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# Seasons

When it is summer in the United States, it is winter in Chile. How can two places have a different season at the same time of year?

Active Reading As you read this page, underline the cause of the seasons.

Earth rotates on its tilted axis. As Earth revolves around the sun, the direction of its tilted axis doesn't change. The tilt of Earth's axis and its orbit cause the seasons.

Earth is divided into halves called *hemispheres*. The Northern Hemisphere extends from the equator to the North Pole. The Southern Hemisphere extends from the equator to the South Pole. In June, the Northern Hemisphere is tilted toward the sun and gets more direct rays of sunlight. It has more hours of daylight and warmer weather. It is summer there.

In June, in the Southern Hemisphere, the opposite season takes place. Why? The Southern Hemisphere is tilted away from the sun and gets less direct sunlight. It has fewer hours of daylight and cooler weather. It is winter there.

In December, the Northern Hemisphere is tilted away from the sun. As a result, it is winter there. At the same time, the Southern Hemisphere is tilted toward the sun and has summer.

#### **Home Sweet Home**

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Which season is it where you live? Draw a picture of the sun and Earth in the correct positions to show the season. Include the tilt of Earth's axis in your picture.

Moon Phases

One night, you might look at the moon and see a tiny sliver in the sky. A few nights later, you might see a bright, round circle. What makes the moon look so different?

Active Reading As you read the last paragraph, write numbers next to the sentences to show the sequence of moon phases.



As Earth orbits the sun, the moon also orbits Earth. The moon reflects light from the sun. That is the light we see from Earth. As the moon travels in its orbit, different amounts of the moon's lit side can be seen from Earth.

#### First Quarter

New Moon



During the new moon phase, the moon is between Earth and the sun. We can't see the moon at all. During a first quarter moon, we see one-half of the moon's lit side.

#### Seasons in the Northern Hemisphere

When the Northern Hemisphere is tilted away from the sun, that part of Earth has winter. When the Northern Hemisphere is tilted toward the sun, it has summer.



The moon's shape does not change. The changes in the appearance of the moon's shape are known as **moon phases**.

You know that sunlight reflects from the moon to Earth. Yet the sun lights only half of the moon at any time. The motions of Earth and the moon are responsible for the phases you see. As the moon revolves around Earth, the amount of the lit part that we see from Earth changes. These different amounts of the moon's lighted side are the different phases of the moon. Each phase of the moon has a different shape. It takes about 1 month for the moon to complete all of its phases. Then the cycle repeats.

During the new moon phase, we can't see the moon. That is because the lit part of the moon faces away from Earth. As the moon moves in its orbit around Earth, we see more of the moon's lit part. We see a full moon when all of the lit part of the moon faces Earth. Then we see less and less of the lit part again.

**Third Quarter** 

#### Do the Math!

Estimate Fractions and Percentages
What fraction and percent of the moon's lit side is seen during

each phase? Complete the table.

Full Moon

	Full moon	First quarter	New moon	Third quarter
Fraction		<u>1</u> 2		
Percent		50%		

#### The lit portion grows larger until we see a full moon. This happens when Earth is between the moon and the sun. As the moon continues in its orbit, we see less of its lit portion. When it is half lit again, it is a third quarter moon.

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# Planets Near and Far

Venus

The solar system's planets are divided into two groups. How and why are the planets in each group different?

Active Reading As you read these pages, underline phrases or sentences that compare inner and outer planets.

A fter the sun had formed, a cloud of rock, dust, and gas remained around it. The planets in the solar system were formed from these leftover materials.

The part of the cloud closest to the sun was also the warmest. In this

area, rock and metal bits clumped together to form the rocky bodies that became the inner planets. These planets developed small diameters and thin atmospheres.

Mercury

The outer solar system was much colder. Gases formed icy particles in the extreme cold. The cold gases and icy particles clumped together to form huge balls of gas and ice that became the outer planets.



Inner Planets

The inner planets are the smallest and warmest planets in our solar system. They have hard surfaces made of rock. The inner planets revolve around the sun more quickly than the outer planets. They are the only planets where probes from Earth have landed.

Images not to scale



#### Jupiter

Jupiter

Compared to the outer planets, the inner planets are small balls of rock that have relatively large, solid cores. The outer planets are huge balls of gas; some are thought to have very small, solid cores.

#### **Outer** Planets

Neptune

Uranus

Saturn

The outer planets are giant balls of gases. These planets are larger and less dense than the inner planets. They rotate quickly, which makes for a short day, but take a long time to revolve once around the sun. Unlike the inner planets, the outer planets have rings.

#### Do the Math! Calculate Diameter

Draw lines on the pictures of Jupiter and Mercury on this page to show their diameters.

If Jupiter's diameter is 142,984 km (88,846 mi) and Mercury's diameter is 4,879 km (3,032 mi), how much bigger is Jupiter's diameter than Mercury's?

Engineering & Technology

NO

and ght ore

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=())

# Sum It Up!

When you're done, use the answer key to check and revise your work.

Read the summary statements below. Each one is incorrect. Change the part of the summary in blue to make the statement correct.

Day and night are caused revolution around the su	by Earth's	
<ol> <li>The discovery of moons a proved that all objects in around Jupiter.</li> </ol>	round Jupiterspace revolve	
<ol> <li>Earth's seasons are cause revolution and rotation ir</li> </ol>	d by Earth's	
<ol> <li>During winter in the Nort Hemisphere, there are mo daylight and it is warmer.</li> </ol>	hern	
5. When it is spring in the Ne Hemisphere, the season is in the Southern Hemisphe	orthern s summer ere	
<ol> <li>Constellations appear to a across the night sky beca Earth's tilt on its axis.</li> </ol>	nove use of	

# Space Exploration

Typically, engineering design problems have many solutions. An engineer often needs to find a balance among many trade-offs to get the best solution. A *trade-off* is the giving up of one design feature to make another design feature better. The charts below show trade-off analyses for spacecraft with and without crew. The benefits and drawbacks of some major design features of each kind of mission are shown. You decide which one should blast off.



ne should	blast off. Spacecraft with C	rew
sture	Benefit	Drawback
2	people onboard to fix problems and run difficult science experiments	greater cost to build to fuel; increased we during liftoff (must air, food, and water)
for reentry tmosphere	safe return of crew; reusable ship	more fuel needed; le space for everything
	and the second	2000

Spacecraft without Crew				
n Feature	Benefit	Drawback		
r, lighter	less fuel needed; costs less to launch	less room for instruments		
ng space w	no need to store air, food, water	no one to fix problems or watch experiments		
energy suppy many years in	can learn about faraway objects	spacecraft doesn't return to Earth; it cannot be		

### **You Decide**

Which type of spacecraft works best for space exploration? Use information from the chart to explain your answer.

Math LIP Grade 5 – Phase 4: May 18 – June 5			
Name	SchoolT	eacher	
May 18 – 22	May 25 – 29	June 1-5	
Geometry	Data Investigations	Patterns and Algebraic Thinking	



#### **Practice:**

- 1. What is the relationship between the radius ad the diameter?
- 2. What is the relationship between the diameter and the circumference?
- 3. What is the relationship between the radius and the circumference?
- 4. Is a diameter also a chord? Why or why not?

**Chord** =  $\overline{FE}$  *A line segment that connects two points on a circle but does* **NOT** *pass through the center.* 

**Diameter =**  $\overline{AG}$  *A* chord that goes through the center of a circle from one side of the circle to the other. It is twice the size of the radius.

**Radius = CB** *A segment from the center of a circle to any point on the circle. It is half of the diameter.* 

**Center Point = C** *Represents the center of a circle.* 

**Circumference** = *The distance around a circle* (*perimeter*). *It is <u>about</u> 3 times the diameter*.



#### **Practice:**





## Day 3: Angles

b

50

A small circle beside a number  $(56^\circ) =$  degrees

The 2 angles in this figure add up to  $120^{\circ}$  (degrees). What is the measure of angle b? 120 - angle a = angle b  $120^{\circ} - 50^{\circ} = 70^{\circ}$ Angle  $b = 70^{\circ}$  (degrees)



# Day 4: Transformations

Ro <u>t</u> ation – When a shaped is simply turned around an origin point, or is turned.	Tran <u>sl</u> ation – When a shape moves, or slides, along a line.	Re <u>fl</u> ection – The movement of a shape across a line and produces a mirror image, or flips.

#### **Practice:**

If the 1<sup>st</sup> shape is the original, what is the transformation of the 3 shapes? (hint: focus on where the dot is located)



Identify each transformation below.



# Day 5: Combining and Subdividing Polygons



Which shape would I create if I combine these 2 shapes? Draw your shape.

Subdivide the shapes below into 3 different shapes by drawing a line where you would cut them.





#### **Day 2: 5.17 Notes and Practice**

#### **Skills and Strategies**

- The mean is computed by adding all of the numbers in the data together and dividing by the number elements contained in the data set. [Mean represents a *fair share* concept of the data.]
- The **median** of a data set is dependent on whether the number of elements in the data set is odd or even. • First reorder the data set from the smallest to the largest then if the number of elements are odd, then the Median is the element in the middle of the data set. If the number of elements are even, then the Median is the average of the two middle terms.

- The **mode** for a data set is the element that occurs the most often. It is not uncommon for a data set to have more than one mode. This happens when two or more elements occur with equal frequency in the data set. A data set with two modes is called bimodal. A data set with three modes is called trimodal.
- The **range** for a data set is the difference between the largest value and smallest value contained in the data set. First reorder the data set from smallest to largest then subtract the first element from the last element.

Example 1:			Prac	tice 1	
Use this stem and leaf plot.		Use this stem an	d leaf plot.		
0 3 7 8			1		
Find the following:		0	3	_	
2 1 5 Median: 20		1	5 6 9	_	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				-	
Mode : 15		2	15/	-	
4 Range: 55		3	1 3 3	_	
5 8 <b>Key:</b> $38 = 38$		4	3	-	
$Mean = (3+7+8+15+15+16+21+25+32+58) \div 10$		5	8	-	
$= 200 \div 10$		Ke	<b>y:</b> $38 = 38$		
= 20 Modion: $2 + 7 + 8 + 15$ (5 + 1) $24 + 25 + 27 + 59$		Find the following	ng:		
Median: $3+2+3+10+13+10+21+23+32+38$ - (15 + 16) ÷ 2		Median			
$= 31 \div 2$ Mode: 15		Mode			
= 15.5 Range $= 58 - 3$	5	Range			
_ 5	5	8-			
Example 2:			Prac	tice 2	
Lin counted the number of TV's his friends had in t	heir	Jack plotted the	number of l	nomeruns his	s favorite team
home. Calculate the mean, median, mode, and range	e for the	scored each gam	e. Calculate	e the mean, 1	median, mode,
number of $1 \vee s$ in the nome.	home	and range of hor	neruns scor	ed.	
X X Laurx-1	nome	·····	Х		
X X X	х		X	X	
$\overset{X \times X}{\longleftarrow} X \times X$	X →	x x x	x	x x x x	x x x
0 1 2 3 4 5	6+		2 3	4 5	6 7
Mean: 3 Mode: 2 and	d 4		Game Nu	mber	
Median: 3 Range: 6					
		Mean:		Mode:	
$Mean = (0+0+1+2+2+2+4+4+4+5+6+6) \div 12$		Median:		Range:	
$= 36 \div 12$					
= 3 Median = $0+0+1+2+2+2+4+4+5+6+6$					
$= (2+4) \div 2$ Mode = 2 and 4					
$= 6 \div 2$ $Range = 6 - 0$					
=3 $=6$					
5.1	6 Notes a	nd Practice			
Stem and Leaf Plot		Steps for ma	king a Ster	n and Leaf	Plot
• Used to organize larger groups of data	Example	Set:			
into an easy to read chart. Also, helps	36,	40, 35, 50, 44, 50,	, 38, 42, 50, 4	49, 70	Stem Leaf
with finding median, mode, and range.	Step 1 – (	Organize data least	t to greatest (	count	3 568
• Data is ALWAYS written least to	pieces)	uata to make sure	you nave inc	iuded all	
<ul> <li>Sumbers are separated into a stem and a</li> </ul>	35.	36, 38, 40, 42, 44.	49, 50, 50. 5	50, 70	4 0249
leaf	Step 2 – 0	Group numbers ba	sed on stem	(draw box	5 000
• Leaf - the digit in the ones place	around ea	ach group)			7 0

• Stem – the digit or digits to the left of the leaf.	35, 36, 38, 40, 42, 44, 49, 50, 50, 50, 70 Step 3 – Make stem & leaf chart.
<ul> <li>Line Plot</li> <li>A line plot shows the frequency of data on a number line. Line plots are used to show the spread of the data and quickly identify the range and mode.</li> </ul>	Example Set: 14, 11, 16, 16, 15, 12, 13, 12, 16, 15, 15, 13, 16, 15, 14, 16, 15, 14 14 $\begin{array}{r} x & x \\ x & x \\ x & x \\ 10 \\ 11 \\ 12 \\ 13 \\ 14 \\ 15 \\ 16 \\ 17 \\ \hline \\ $

#### **Practice 1**: Given the data set: 15, 16, 11, 14, 16, 15, 15, 12, 13, 12, 16, 16, 15, 13, 14, 15, 14, 16

Create a stem-and-leaf plot below.	Create a line plot below.

**Day 3: Practice 2:** Look at the stem-and-leaf plot below. Identify if each statement is true or false based on information shown in the graph.

#### Weights of Dogs at the Animal Shelter Stem Leaf 0 68 L 2 4 4 8 2 05789 3 1136 ч 3 5 1225 5 0 5 5= 55 pounds Key:

True	
or	Statement
False	
	There are 28 dogs in the animal shelter.
	There are 22 dogs in the animal shelter.
	The heaviest dog weighed 14 pounds.
	The heaviest dog weighed 55 pounds.
	Half of the dogs weighed less than 20 pounds.
	Five dogs weighed 45 pounds or more.
	The difference in weight between the heaviest dog and the
	lightest dog is 49 pounds.
	Five dogs weigh 50 pounds or more.
	The median weight of the dogs is 30 pounds.

There is an equal number of dogs that weigh less than 14 pounds
and dogs that weigh greater than 51 pounds.
More dogs weigh 31 pounds than any other weight.
The lightest dog is 8 pounds.

Task 1: Lunch Combos	Task 2: Write down five numbers between 0 and 20
A new restaurant has opened, and they offer lunch	below and find the:
combos for \$5.00. With the combo meal you get 1	
sandwich, 1 side, and 1 drink. The choices are below.	Mean:
Sandwiches: Chicken Salad, Turkey, Grilled Cheese	Median:
Sides: Chips, French Fries, Fruit Cup	Mode:
Drinks: Soda, Water	Range:
How many different lunch combos are available?	
	Task 4: Design a Stem-and-Leaf Plot
Task 3: Design a Line Plot	Construct a stem-and-leaf plot that fits the data below.
Construct a line plot that fits the data below.	1
1	• There are exactly 12 data points.
• The mean is 12.	• The range is 39.
• The range is 4.	• There is no mode.
• There are two modes.	• The median is 36.
How do you know that your line plot fits the criteria?	How do you know that your stem-and-leaf plot fits the
Can you design another line plot that also works?	criteria? Can you design another stem-and-leaf plot
	that also works?
Explain your thinking using pictures, words, and	
symbols	Explain your thinking using pictures words and
	symbols
Explain your thinking using pictures, words, and symbols.	that also works? Explain your thinking using pictures, words, and symbols.

#### Day 4: 5.15, 5.16, and 5.17 More Practice

#### Day 5: 5.15, 5.16, and 5.17 Formative Assessment

1. The chart shows the different shirts, pants, and shoes				2. Directions	s: Con	nplete	the tre	e diag	ram.			
Simon has in his closet.				Kathy is allo	wed a	ı snack	after	schoo	l each	day. S	he is	
-	Outfit Choices			allowed one	type of	of snac	k and	one be	everag	ge. Con	nplete	
	Color of	Color of	Types of		a tree diagra	m wit	h all p	ossible	e outco	omes.		
	Shirts	Pants	Shoes		Snack: Gra	nola I	Bar. Ý	ogurt	. Fruit	t		
	Navy (N)	Khaki (K)	Boots (B)		Reverage V	Vater	Milk	8	, 0,	-		
	Red (R)	Jeans (J)	Sneakers (S)		Develage. v	value	, 191116					
	White (W)			Į								
Show al	l the possible	combinatio	ons Simon can	create								
with one	e shirt, one pa	ir of pants,	and one pair of	f shoes.								
	· 1	1 /	1									
3. Mrs. 3	Smith is maki	ing Nur	nber of Books Rea	d	4. This table	show	s the r	umbe	r of fis	sh in e	ach of	7
this line	plot to show		x		aquariums.							
the num	ber of books		X				Fish i	n Aau	ariums	5		
read by	each of her 2	2 🗙	χ χ		Aquarium	1	2	3	4	5	6	7
students		X	<del>x</del> x	×	Number							
students	•			<u></u>	of Fish	19	30	24	30	39	25	22
Mrs Sm	hith has not			Į '	011101		1	1			1	
WIIS, SIL	liul llas llot	for	Number of Books	3	Laff amptiad	all th	a fich	from t	hasan	auariu	me on	d mut a
recorded all the data for Each X represents one student.						iioiii t		quariu 7	ins an	u put a		
her students. For exactly			fair share of	these	Tish in	ito eac	n of th	nese /	aquarı	ums.		
how many students does she still need to record the			The number	of fis	h he w	ill put	into e	ach ac	luariui	n		
number	of books read	1?			represents th	e						
A. 4	B. 5	C.	6 D.	7	A. mode	B. 1	mean	(	C. rang	ge	D. r	nedian

#### Day 1: SOLs 5.18 and 5.19 NOTES and PRACTICE

#### **EXAMPLES:**

To determine the rule of <b>numerical patterns</b> ,	, use a caret (V) betwe	een	Patterns can also be in t	he form of a table	
numbers.					
2, 6, 10, 14 $\rightarrow$ In this pattern, the numbers	are <i>increasing</i> , or gett	ing larger.	IN OUT The r	ule for this	
$v v v \rightarrow We$ know the operation will b	e either addition or mi	ultiplication	<b>2</b> 8 patte	rn is <b>x4.</b>	
+4 +4 +4  = 0 2 × 3 = 0 2 • → Each possible rule must be te	+4 = 0	umbors	3 12		
follow the pattern $6x3$ does not equal 10. The	rule for this nattern is		? 16		
Tonow the pattern. Oxo does not equal to. The		<u>Auu n</u>	5 ?		
Problem Situation	Open Sentence		Dhraco	Variable Expression	
Mike had six baseball cards, his brother gave	b + 4 = 18	four divis	ded by a number		
him four more, and now he has 18 cards.			ued by a number	4 - 1	
7 boxes, each containing the same number of	7a = 84	eight mo	re than a number	t + 8	
How many cookies were baked if four friends	c/4 = 3	seven les	ss than a number	k-7	
each received three cookies?	9.0	six times	a number	6n	
1. Draw the figure that would be next in the	he pattern	4 Which	word describes the letter	r "p" in the	
below?		expression <b>9</b> x <i>p</i>			
		-			
		A wh	iole number		
		B op	eration		
Day 0 Day 1 Day 2 Day 3		C alg	jebra		
		D vai	riable		
2 What is the rule for the pattern? 36, 43	, 50, 57, 64	5 Which o	f the following phrases re	presents the phrase	
	, , ,	"4 less th	an a certain number"?		
A add 7					
B add 9		A 4-	n		
C Multiply by 7		B 4 -	+ n		
D Multiply by 9		C n-	4		
	D n -	+ 4			
3 Complete the following pattern.		6 Camero	n is 4 inches taller than Be	ennett. If Bennett	
	is t inches tall, which algebraic expression represents				
, 45, 36, 28, 21,		Cameron's	height?	·	

#### Day 2: 5.18 and 5.19 Technology Enhanced Items (TEI)

1. Directions: Draw an arrow from the pattern on the left to its description on the right. You must draw one arrow to and from each box. Consider the patterns on the left. Determine how to describe the pattern. Match that pattern with its correct description on the right.

999 900 801 702	Decreases by 99 each time
434 545 656 767	Increases by 111 each time
1,001 1,111 1,221 1,331	Increases by 110 each time

2. Directions: Complete the missing information in the table. There are 24 cookies in a box. There are 48 cookies in 2 boxes. How many cookies would be in 3 and 4 boxes?

Number of Boxes	1	2	3	4
Number of Cookies	24			

3. The picture below shows what happened when the numbers 3, 6, 7, and 9 were put into the same function machine. What is the rule?



4. Directions: Draw an arrow from the word problem on the left to the matching algebraic expression on the right. You must draw one arrow to and from each box.



Day 3: 5.18 Checkpoint Questions

1

Which rule best describes this pattern?

2, 5, 8, 11, 14, ...

- Add 1
- B Add 2 C Add 3
- D Add 4
- D AU

А

2

#### Which is true about this pattern?

Row X	1	2	3	4	5
Row Y	2	4	6	8	10

- A The first row of numbers is twice as big as the second row of numbers.
- **B** The first row of numbers is half as big as the second row of numbers.
- **C** The first row of numbers is 1 less than the second row of numbers.
- **D** The first row of numbers is 3 more than the second row of numbers.

3 Look at the pattern of figures.

#### Which best describes the next figure?

- A It will have six sides.
- B It will have seven sides.
- C It will have eight sides.
- D It will have nine sides.

4 Look at the pattern of squares. Which best describes the next figure?



- F It will be a small square made of 16 small squares.
- **G** It will be a small rectangle made of 16 small squares.
- **H** It will be a large rectangle made of 25 small squares.
- J It will be a large square made of 25 small squares.

- 1 Which of these could be solved using the equation 4s = 24?
  - A Students washed 4 cars on Friday and 24 cars on Saturday. How many cars did they wash in all?
  - **B** Students washed 24 cars on Saturday and 4 cars on Friday. How many more cars did they wash on Saturday?
  - C Students washed 4 cars every hour for 24 hours. How many cars did they wash in all?
  - D Students washed 4 cars every hour. They washed 24 cars in all. How many hours did students wash cars?
- 2. Write an equation that represents "8 less than a number is equal to 12".\_\_\_\_\_
  - 3. Write a story problem math question that can be expresed with the equation: 9 + n = 18

4. Model the equation in number 3. Make sure to include a key.

Day 5: 5.18 and 5.19 Formative Assessment

- 1. What are the next three numbers in the pattern: 1, 4, 9, 16, ...... Explain how you know.
- 2. The chart below shows the temperature for the last three days. If the pattern continues, what is the temperature most likely to be on Thursday?

Day	Temp.
Mon.	27
Tue.	32
Wed.	37
Thu.	???

3. Mike had 12 cans. Together, Mike and Lisa had 21 cans. How many cans did Lisa have?

Which number sentence represents this problem?

A.  $12 + \Box = 21$ B.  $21 + 12 = \Box$ C.  $\Box + 21 = 12$ D.  $12 + 21 = \Box$ 

4. Model the equation you chose as the answer in number 3. Make sure to include a key.

#### MUSIC 5<sup>th</sup> Grade Music Learning in Place May 18-22

Name

Teacher

Test your knowledge of Italian musical terms. If you get stumped, use the word bank below.



	Word	Bank	
Forte	Legato	Crescendo	onsia
Vivace	omissinsi¶	Staccato	Fortissimo
orgallA	Tempo	ozzəM	Lento

Name

Teacher

# **Self-Created Music Word Search**

**Directions:** Listen to your favorite vocal artist's song(s) or watch their performance if you can. What did you observe? What music elements did you enjoy or dislike? Write down the music vocabulary words you think of in the word key at the bottom of this page. Then use those words to fill in the template below horizontally, vertically, or diagonally—but not backwards. Finally, fill in the rest of the boxes with random letters. Have a family member complete your word search!



#### **MUSIC** 5<sup>th</sup> Grade Learning in Place May 25-29 and June 1-5

Name\_\_\_\_\_Teacher\_\_\_\_\_

Sample Word List fo	or Music Word Search
Steady Beat Tempo Andante Allegro Meter Time Signature Dynamics Piano Forte Mezzo Piano Mezzo Forte Crescendo Decrescendo Decrescendo Rhythm Duration Posture Breath Support Articulation Major Minor Pitch Melody Harmony Accompaniment A Capella Staccato Legato Sharp Flat Intonation	Soprano Alto Tenor Bass Repeat Sign Introduction Coda Interlude Verse Conductor Lyrics Interval Range Concert Performance Voice Part Instruments Melody Harmony Chorus Solo Unison Duet Round Canon Solfege Spiritual Anthem Aria

#### **Elementary Art Packets**

#### May 18- June 5

\*Please select one prompt from the list below to create a piece of art each week.

#### Are you looking for more art ideas?

#### Silly Drawing Prompts

#### Animals

- 1. Draw a llama surfing.
- 2. Draw a fish swimming in something other than water.
- 3. Combine two animals to create a new one.
- 4. Draw a shark eating a cupcake.
- 5. Draw a crab at a birthday party.
- 6. Draw a seahorse in a blizzard.
- 7. Draw a dinosaur crying.
- 8. Draw an animal with arms for legs and legs for arms.
- 9. Draw a pug on a treadmill.
- 10. Draw a horse throwing a horseshoe.
- 11. Draw a shark waterskiing.
- 12. Draw a walrus in a beach chair.
- 13. Draw a circus elephant standing on a ball.
- 14. Draw a koala bear sitting on a trashcan.
- 15. Draw a lizard putting on lipstick.
- 16. Draw a squirrel roasting a marshmallow.
- 17. Draw an octopus with spoons for legs.
- 18. Draw a mouse riding a motorcycle.
- 19. Draw a flamingo doing ballet.
- 20. Draw a butterfly eating a steak
- 21. Draw a cat chasing a dog.
- 22. Draw a lobster dancing.
- 23. Draw a cat playing a sport.
- 24. Draw a chicken skydiving.

#### Food

- 1. Draw a piece of fruit in outer space.
- 2. Draw a Pop Tart lifting weights.
- 3. Draw a loaf of bread at a disco.
- 4. Draw a rainstorm of sprinkles.
- 5. Draw french fries on a rollercoaster.
- 6. Draw a food eating another food.
- 7. Draw a walking taco.

- 8. Draw chicken wings flying.
- 9. Draw a banana slipping on banana peels.
- 10. Draw a cookie with googly eyes instead of chocolate chips.
- 11. Draw a pineapple rollerblading.
- 12. Draw a piece of asparagus snowboarding.
- 13. Draw an annoying orange.
- 14. Draw a donut riding a skateboard.
- 15. Draw a turkey leg eating a turkey sandwich.
- 16. Draw a cheeseburger wearing a dress.
- 17. Draw a banana in pajamas.
- 18. Draw a peanut butter and jelly sandwich on vacation.
- 19. Draw an apple talking to your art teacher.
- 20.Draw a hot dog flying.
- 21. Draw a lemon making orange juice.
- 22. Draw an ice cream cone eating a Popsicle.
- 23. Draw a garden of lollipops.



## **Practice Plan Number 1**

Write 3 different words that you would use to help you describe Field Day.

1.		
2.		
3.		 

**Before** you practice any of the 5 events below, which activity do you think you'll like the most and why?

	Practic	e Day 1	Practic	e Day 2	Rate 1 thru 4
Event Name	Score 1	Score 2	Score 1	Score 2	1 = Not Fun 4 = Most Fun
Paper Plane Corn Hole					
Wind Bowling					
Sock-er Skee-Ball					
Towel Flip Challenge					£:
Milk Jug Relay					

Now that you have practiced these events, which activity did you like the most and why?

# PAPER PLANE CORN HOLE

Get Ready: You'll need 3 paper sheets per player, a bucket or laundry basket.

**Get Set:** Create 3 paper airplanes using a design of your choice. Place your bucket 5-10 feet away from your throwing line.

- This event is called Paper Plane Corn Hole.
- The object of the game is to score points by throwing your paper airplane into your bucket. You have 1 minute to score as many as possible.
- Design and create 3 paper airplanes.
- On the start signal, fly your airplanes as many times as you can toward your bucket.
- Score 1 point for every plane that hits the outside of the bucket and 2 points for every plane that lands in the bucket.
- Write your score down on the official Field Day Score Card.







# WIND BOWLING

Get Ready: 1 Balloon (or Paper Plate), 10 Plastic Cups

**Get Set:** Set 10 empty plastic cups at the edge of a table in single file along the edge.

# GO!

**UPEN** 

- This event is called Wind Bowling. The object of the game is to knock all the cups off a table edge using only the air from the balloon or paper-plate fan.
- You'll do that by blowing the balloon up and aiming the escaping air towards the empty plastic cups. If you don't have a balloon you can wave the paper plate like a fan with the fan's air hitting the cups.



- Score a point for every cup that gets knocked off the table.
- You have 1 minute to knock down as many cups as you can.
- Write your score down on the official Field Day Score Card.



# SOCK-ER SKEE-BALL

Get Ready: 10 sock balls, 1 Laundry Basket, 1 Bucket, 1 Tupperware container

**Get Set:** Roll up the socks to make sock-balls. Stack the targets into skee-ball formation with the Tupperware inside the bucket and the bucket inside the laundry basket.

- This event is called Sock-er Skee-ball. The object of this game is to score points by kicking the sock ball into the skee-ball targets.
- You'll do that by using your feet to kick the sock ball into the target.
- Score 1 point for every sock ball that lands in the laundry basket.
- Score 5 points for sock balls in the bucket.
- Score 10 points for sock balls in the Tupperware container.
- You get 10 chances to score as many points as you can.
- Write your score down on the official Field Day Score Card.







# **TOWEL FLIP CHALLENGE**

Get Ready: 1 large beach or bath towel

Get Set: Lay your towel out flat on your floor and stand on it.

- This event is the Towel Flip Challenge. The object of this game is to flip the towel as fast as you can without stepping off of it.
- You can take small steps from one part of the towel to another. However, you can only move it when you have both feet firmly in place on top of the towel.
- The towel must be flat at the start and flat at the finish.
- You have 1 minute to complete the challenge.







# MILK JUG RELAY

**Get Ready:** Two 1-Gallon Milk Jugs, Items to Mark Start/End Points (cones, socks, plastic cups, etc.), Clock or Stopwatch

**Get Set:** Set up an area to move in by making a starting point and ending point. Distance can be 15 to 30 walking steps from beginning to end. Fill two used 1-gallon milk jugs with water ( $\frac{1}{4}$ ,  $\frac{1}{2}$ , or full) and place at a start spot.

- This event is called the Milk Jug Relay. The object of this game is to carry the milk jug across the room as many times as you can.
- You get 1 point for each full length you travel.
- Add extra challenge by carrying two milk jugs at once.
- You have 1 minute to complete the challenge.
- Write your score down on the official Field Day Score Card.









# **Grade 5: Gifted Opportunities**

Gifted Education & Academic Rigor Services

May 18 – June 5

Ready, set, THINK! Complete a Math and/or Communication Skills/Reading activity each week on a separate piece of paper to share with your Gifted Resource Teacher. If your brain needs more, then do the STEM challenge for an extra brain boost! Enjoy!

Subject	Week 10 May 18 - 22	Week 11 May 26 - 29	Week 12 June 1 - 5
	Create a map (to scale)	Imagine that your school	Mrs. Smith and Mrs.
	of your dream classroom,	will be hosting a fall	Jones both volunteer in
	and arrange the	Festival. The	their children's
	furniture the way you	refreshment committee	classrooms. Mrs. Smith
	think would most	wants to sell apple cider.	volunteers every third
	efficiently and creatively	The apple cider jug holds	school day for 1/3 of a
Math	utilize the space. Keep in	225 ounces. The cider	day. Mrs. Jones
Main	mind traffic patterns,	will be served in 8-ounce	volunteers every fifth
	student seating	cups. The committee	day of school for 1/2 of
	arrangements (being able	expects 200 people to	a day. In a given month,
	to see the board),	attend. How many jugs of	which parent is spending
	interference with	apple cider should the	more time volunteering?
	doors opening and	refreshment committee	
	closing, etc.	purchase?	
	Write 10 food and people	Write a paragraph about	Mr. and Mrs. Alfredo
	similes. For example,	an argument about	Wilkowitz named their
	"Franco is as assertive as	anything (imaginary or	son Hokey Pokey
Communication	a wilted piece of	real). Make each	Wilkowitz. Not
Communication	lettuce," or "Mariana's	sentence start with the	surprisingly, Hokey wants
Skills	hair is as red as tomato	last letter of the	to know what they were
/Reading	soup". Your comparisons	previous sentence (if the	thinking. Explain for
	should create a very	first sentence ends with	them, clearly but kindly
	clear image of the	an e, the next sentence	(and creatively!)
	person.	should start with an e.	
	Pick a book that you like,	Create a shadow puppet	Design a blueprint for
	that doesn't already have	using paper, tape, and	the playground of your
	a movie version. Pretend	some form of stick. Turn	dreams.
	that this book is about	the lights off and use a	
STEM	to be made into a movie.	flashlight to test your	
Challenge	Create a storyboard for	shadow puppet. Make	
	the trailer to advertise	adjustments to improve	
	the movie.	them. Record your	
		adjustments and	
		observations.	

Don't forget to read every day! Your brain will thank you $\textcircled{\odot}$ .

#### **Online Resources for ESL Families**

English learning websites are a great way to learn. This list of websites can be used by your family to learn English and learn to read in English. Please go to the websites to find reading opportunities, educational activities, and English learning games. Use these tips to help your child learn English:

- Read in your native language or in English everyday!
- Have your child keep a vocabulary journal of new words they read or hear. Use the new words to write sentences and stories. Draw pictures to go with the new words.
- Watch educational shows in English on TV. Ask your child to write down 3-5 new English words in their journal each day.
- Talk to your child in your native language (ie: Spanish). Tell your child stories and sing songs. Talking and listening in any language builds vocabulary and background knowledge. A strong vocabulary is important for reading success.
- Playing together as a family is important to build language and a strong family bond. You can play games on the computer, play board games, or play together outside. Have fun and build language at the same time.
- When it is safe, take family trips in the community. Going for a walk or going to stores creates many opportunities to talk together and build vocabulary using the world around you.

For more information about how to help your child learn English and your native language, go to <u>https://www.colorincolorado.org/</u>.

#### Websites for ESL Families

#### Reading - eBooks:

Elementary: https://abdodigital.com/?tk=414F33301B8E136DEE3F0A93BF1795E1

Secondary: https://abdodigital.com/?tk=840BC558E6676AB1F4C9FA29D8EC6D69

TumbleBooks K-12: https://www.tumblebooks.com/

TumbleBookLibrary (k-6)	Username: tumble735	Password: books
TumbleMath (k-6 math)	Username: tumble2020	Password: A3b5c6
TeenBookCloud (6-12)	Username: tumble2020	Password: A3b5c6

#### Reading - Audio books:

https://www.tumblebooklibrary.com/

Kid to Adult Audio books	Username: tumble2020	Password: A3b5c6			
https://www.uniteforliteracy.com/					
https://www.myon.com/school/readathome					
School Name: Read at Home	Username: readnow	Password: myon			

#### **Beginning Reading, Grammar & Games:**

https://www.starfall.com https://www.abcya.com/games/tangrams https://pbskids.org/games/music/ https://esl-kids.com/

### Spanish Literacy:

https://www.spanishplayground.net/online-spanish-stories-kids/