4th Grade Distance Learning Week 3

ELA

Read and complete the questions for each.

- Running: Sport or Way of Life?
- Substitute Meany
- What's the Deal with Sleep?

<u>Math</u>

Unit 7 - Measurement worksheets

- Measuring Capacity Level 3
- Milliliters and Liters (pg. 1)
- Milliliters and Liters (pg. 2)
- Converting Liters and Milliliters

RUNNING: SPORT OR WAY OF LIFE?

by Kelly Hashway

You flip through the channels for the fourth time and realize that once again there's nothing on television that grabs you. Not a problem! Throw on some running shoes and comfortable clothes and go for a run.

One of the coolest things about the sport of running is that you don't need expensive equipment. All you need is a good pair of running shoes and a safe environment. But just because you don't need much equipment don't be fooled into thinking the sport of



running is easy. No one wakes up and decides to run a marathon without training. Running requires discipline, perseverance, and concentration. It's a sport that's good for your body and mind.

Running strengthens your heart, lungs, and muscles. It develops coordination and makes you more aware of your body. Running also gives you energy by increasing your oxygen intake, and it improves your immune system so you don't get sick as easily. It can even help you stay more focused in school because exercise helps you to think more clearly.

How do you get involved in the sport if you don't know much about it? Most schools offer cross-country and track programs, but there are also running clubs open to all ages. A simple Internet search can help you find some in your area. The programs show you how running can offer competition or just be for fun. They also teach runners to set realistic goals and take care of their bodies.

Runners have great respect for each other because they know how difficult the sport can be. If you go to a race, you'll see people cheering for all the runners, from the first place finisher to the last place finisher. Running isn't always about how fast you are or how far you're going. It's about getting out there and doing it. Participation is more important than competition, and effort is recognized over talent.

If you're looking for more than just a sport, running may be the perfect choice for you.

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RUNNING: SPORT OR WAY OF LIFE?



by Kelly Hashway

- 1. What is the main idea of the fourth paragraph in this article?
 - **a.** Running is one way to keep your body healthy.
 - **b.** You don't need expensive equipment to be a runner.
 - **c.** Running for fun is better than running in a competition.
 - d. There are many running clubs and teams you can become involved in.

Benefits of Running for Your Health and Mind

(Fi	nd Four Benefits Men	tioned in the Passage)	
1.		3	4
 What is the author's ma	gin nurnose for writing	a this passage?	
b. to teach reacc. to persuade reac	cal information abou ders how to become readers to try running and contrast running	great runners	on
Tell whether each sente Write the word <u>fact</u> or <u>c</u>	·		
	Running is not an e	easy sport.	
	Many schools offer	cross country or track	programs.
	Running develops	coordination and mak	es you more aware

of your body.

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RUNNING: SPORT OR WAY OF LIFE?



Vocabulary Activity

Part 1:	Reread "Running: Sport or Way of Life?" by Kelly Hashway	. As you read highlight the following
	vocabulary words in the story.	

lungs coordination immune system heart concentration marathon realistic

ŀ	Part	2:	Matcl	h each	vocabul	ary word	I on the	left wi	ith its c	definition	on the right.	

 1. lungs	a.	long-distance running race
 2. coordination	b.	protects your body from bacteria and disease
 3. immune system	c.	reasonable
 4. heart	d.	body organ that puts oxygen into your blood
 5. concentration	e.	ability to think deeply
 6. marathon	f.	ability to move your body's muscles skillfully
 7. realistic	g.	muscle that pumps blood through your body

Part 3: Use a vocabulary word from the list to complete each sentence.

- 9. When Joey said he could run 50 miles, his friend said, "That's not ______."
- 10. I could barely breathe when I finished running the ______.
- 11. The nurse was monitoring her patient's _____ rate.
- 12. The writer was lost in ______ as he thought about what he will write next.

Substitute Meany

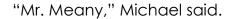
By Kelly Hashway

Jacob walked into school with a smile on his face.

He loved Fridays.

"Hey," Michael said, walking up alongside him. "I heard you have a substitute today."

"Who is it?" Jacob asked, hoping for Mr. Smith, the nicest substitute at school. The students all referred to him as Mr. Smiley.





"See ya!" Michael patted Jacob on the back and turned into his classroom.

Jacob slowed his pace, imagining a monster of a substitute teacher. He probably had big bushy eyebrows that slanted downward when he scowled at the students. And his voice!

Jacob imagined it to be a booming voice that shook the classroom walls. Jacob shivered.

"You ready for Mr. Meany?" Cassie asked, meeting Jacob at the classroom door.

Jacob gulped and stopped in the doorway. The bell rang, and Jacob heard footsteps coming toward him. Loud, scary footsteps.

"Are you in this class, young man?"

Jacob kept his head lowered and said, "Um...yes."

"Please find your seat then."



Jacob finally looked up when he heard the word "please." Someone mean wouldn't be so polite, would they?

"Is something wrong?" Mr. Meany asked.

Jacob just stared. Mr. Meany didn't have a booming voice or bushy, slanted eyebrows. "Are you Mr. Meany?"

The man nodded and smiled. "I see the name fooled you."

"I thought..." Jacob wasn't sure he should tell Mr. Meany how the students gave the substitute teachers nicknames.

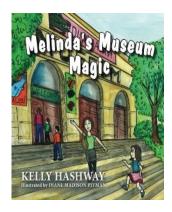
"That I got my name because I'm mean?" Mr. Meany laughed. "I get that a lot." He leaned down and whispered, "Why don't you take your seat and give me a chance to show you I'm not mean at all?"

Jacob nodded and walked to his seat. The morning passed quickly, mostly because Mr. Meany was a lot of fun. Jacob didn't even mind taking his math test because Mr. Meany did a cheer at the front of the room before the test and made everyone laugh.

When it was lunchtime, Jacob stood and walked up to Mr. Meany. "See you after lunch, Mr. Not-a-Meany," Jacob said with a smile.

Mr. Meany smiled back.

About the Author



Kelly Hashway's picture book, Melinda's Museum Magic, is now available!

Melinda is taking her first trip to the museum, and her mother promises it will be magical. But when the exhibits start coming to life in ways that only Melinda can see, she'll learn the real magic of the museum.

Hashway, Kelly. Melinda's Museum Magic ISBN: 978-0615814216

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TTGIT		ubstitute Mean	
	3	By Kelly Hashway	man
1.	What is the name of the s	substitute that Jacob wanted?	
	a. Mr. Meany	b. Mrs. Nice	
	c. Mr. Smith	d. Mrs. Jones	
2.	Describe how Jacob ima	igined Mr. Meany.	
	-		
3.	Name one thing Mr. Mac	any did that made laceb change	a his mind about him
J .	name one ming Mi. Mec	any did that made Jacob change	e filis ffillita about filliti.
4.	What did Jacob say to le	et the reader know he felt differer did at the beginning.	nt about Mr. Meany at the

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Substitute Meany

By Kelly Hashway

Match each vocabulary word on the left with the correct definition on the right. Write the letter on the line provided.



1.		referred	a.	to have looked at someone with disapproval
2.		slanted	b.	a person that takes the place of someone or something
3.		scowled	c.	showing good manners
4.		substitute	d.	the speed that someone or something moves
5.		polite	e.	to have called someone by a certain name or title
6.		pace	f.	a name that is different from your real name but people may call you by it
7.		nicknames	g.	not level or straight
*	Now try	this: Choose one vocabulary wo	ord fr	rom this page and use it is a sentence.

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By Lydia Lukidis

You go to bed at night, close your eyes, and drift off to sleep. Have you ever wondered how exactly sleep works? Plus, where do dreams come from?

Let's start with the basics. When you fall asleep, you go through the four stages of the sleep cycle. We'll explore what happens during each of these stages.



First up is Stage 1. This is when you feel

yourself becoming drowsy. Your muscles begin to relax and your brain activity slows down. Your eye movements are slow during Stage 1. It lasts several minutes and you can be woken up easily.

Next is Stage 2, when your sleep becomes a bit deeper. You won't wake up as easily. The slow eye movements continue and your brain waves slow down even more. Your body temperature goes down and your heart rate slows down.

Stage 3 is known as deep sleep. It's more difficult for you to be woken up. And although you are sleeping deeply, this is when sleepwalking or sleep talking occurs. So all those sleepwalkers out there may not actually remember doing anything strange in their sleep the next day.

Then finally, you move into REM. That stands for rapid eye movement. During the REM stage, your eyes move quickly beneath your closed eyelids. This is caused by certain brain activity. You may have vivid dreams during this stage. Your brain waves are more active than in Stages 2 and 3. They're similar to when you're awake. It's easier for someone to wake you up, but you may feel groggy or sleepy.

Once your REM phase is over, the cycle starts all over again with Stage 1.

A complete sleep cycle lasts between 90 and 110 minutes. Stages 1 and 2 are considered light sleep, while Stage 3 is deep sleep. You'll go through about four or five of these cycles each night, depending on how long you sleep.

Now, what's the deal with dreams? The scientific study of dreams is called oneirology. Nobody knows exactly why we dream. It is believed that dreaming helps us process emotions. Things that happen during the day often enter our dreams. We spend about 2 hours a night dreaming. Every single one of us dreams. Some of us dream in color, while others dream in black and white. Although we can dream during each stage of sleep, the most vivid dreams occur during REM sleep.

Sleep is very important. In fact, you spend about a third of your time doing it! That's a good thing. Quality sleep is as important as food and water. Without it, we wouldn't be able to function properly. We wouldn't be able to learn or create new memories. It would also be harder to concentrate and respond quickly. School-age children and teenagers need about 9 ½ hours of sleep each night. Most adults need between 7 and 9 hours of sleep each night.

Another funny habit we have is that we often forget our dreams. So the next time you fall asleep, keep a notebook and pen beside your bed. If you have any memories of your dreams when you wake up, write them down right away. Some might make funny stories!

About the Author



Lydia Lukidis is a children's author with a multi-disciplinary background that spans the fields of literature, science, and theater. So far, she has over 40 books and eBooks published, as well as a dozen educational books. Her latest STEM books include <u>A Real Live Pet!</u> and <u>The Space Rock Mystery</u>.

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By Lydia Lukidis

Write the label 1, 2, 3, or REM next to the correct description of Stage 1, Stage 2, Stage 3, and REM in the sleep cycle.
Your brain activity slows down, and you aren't woken up as easily. Your body temperature and heart rate fall.
Your eyes move quickly beneath your eyelids. You may have vivid dreams. Your brain waves are more active.
You begin to feel drowsy. Your muscles relax. You can still be woken up easily.
You enter deep sleep, and it's more difficult for you to be woken up. Some people may sleep walk or sleep talk.
Nobody knows exactly why we dream. According to the article, what is one reasscientists think we dream?
Which of the following is not true about dreams?
a. Some of us dream in color, while others dream in black and white.
b. The average person spends about two hours per night dreaming.
c. Dreams only occur during the REM stage of the sleep cycle.
d. The most vivid dreams occur during REM sleep.
Based on the information in the article, identify three benefits of getting enough sleep.

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By Lydia Lukidis

Match each vocabulary word from the reading passage with the correct definition. a. producing realistic or clear images in your 1. drowsy mind 2. heart rate **b.** the worth, value, or excellence of something ____ **3.** rapid c. sleepy; tired 4. vivid **d.** a routine pattern of behavior e. focus your attention on a task or activity _____ **5.** oneirology 6. emotions f. a course of events that is repeated over and over again ____ **7.** quality **g.** the number of times your heart beats per minute 8. concentrate **h.** the scientific study of dreams 9. habit i. happening at a quick pace 10. cycle j. feelings

Name:

By Lydia Lukidis

In the article, "What's the Deal with Sleep?" you learned that sleep is important to our ability to function and feel our best. Everything becomes more difficult when we don't get enough sleep. In fact, according to the article, school-age children and teenagers need about nine-and-a-half hours of sleep every night.



On the lines below, answer the following questions: Do you think you get enough sleep every night? Why or why not? How do you feel when you don't sleep enough? What changes could you make to help yourself get enough sleep?	

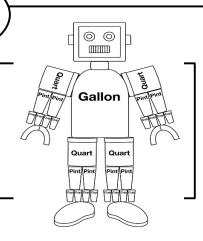
Measuring Capacity

1 gallon = 4 quarts = 8 pints = 16 cups

1 gallon = 4 quarts

1 quart = 2 pints

1 pint = 2 cups



Fill in the correct number for each statement.

- **a.** 3 gallons = ____ pints
- c. $\frac{1}{2}$ gallon = ____ pints
- **e.** $1\frac{1}{2}$ pints = ____ cups

- **b.** 6 gallons = ____ quarts
- **d.** ½ quart = ____ cups
- **f.** $2\frac{1}{2}$ gallons = ____ cups

Circle the greater amount for each pair.

- g. 12 quarts or 6 gallons
- i. 6 cups or $2\frac{1}{2}$ pints
- **k.** 16 pints or 8½ quarts

- **h.** 10 quarts or 5 gallons
- **j.** $4\frac{1}{2}$ cups or 2 quarts
- I. ½ gallon or 3½ quarts

Find the best answer and explain.

m. Each day, Isaac feeds his puppy one cup of dog food in the morning and one cup in the evening. How many quarts of food does Isaac feed his puppy during a week? Explain how you found your answer.

answer: _____

explain: _____

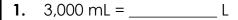
Milliliters and Liters

A <u>liter</u> (L) and a <u>milliliter</u> (mL) are two units for measuring capacity in the metric system.



This bottle holds 1 liter of water.

To convert liters to milliliters, multiply by 1,000.





A milliliter is about 20 drops of water.

To convert milliliters to liters, divide by 1,000.

Milliliters and Liters

A <u>lliter</u> (L) and a <u>milliliter</u> (mL) are two units for measuring capacity in the metric system.

The bottle pictured at the right holds 1 L of water.

About twenty drops of water equals 1 mL.



To convert liters to milliliters, multiply by 1,000.

 $9 L \times 1,000 = 9,000 mL$

To convert milliliters to liters, divide by 1,000.

 $13,000 \text{ mL} \div 1,000 = 13 \text{ L}$

Determine which amount is more. Write the larger amount on the line. If the amounts are equal, write the word <u>equal</u> on the line.

- 1. 3 L or 300 mL of milk
- 2. 10,000 mL or 10 L of juice
- 3. 60 L or 60,000 mL of vegetable oil
- **4.** 140,000 mL or 1,400 L of water
- **5.** 37 L or 38,000 mL of soap
- 6. 500 mL or 1 L of vinegar
- 7. 9 L or 950 mL of maple syrup
- **8.** 7,000 mL or 7 L of cleaning fluid
- **9.** 10,100 mL or 10 L of gasoline
- 10. 8 L or 8,001 mL of jam
- 11. 66,000 mL or 66 L of lemonade
- **12.** 801 L or 810,000 mL of honey

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____
- 11. _____
- 12. _____

Converting Liters and Milliliters

Complete the tables below and answer the questions that follow.

liters	1		9	
milliliters		5,000		30,000

milliliters	4,000			550,000
liters		6	23	

rule: multiply by 1,000

rule: divide by 1,000

a. How many liters are in 5,000 milliliters?

b. How many milliliters are in 23 liters?

c. How many milliliters are in 9 liters?

d. How many liters are in 550,000 milliliters?

e. How many liters are in 20,000 milliliters?

f. How many milliliters are in 100 liters?

g. How many milliliters are in 11 liters?

- h. How many liters are in 890,000 milliliters? ___
- i. Brenda has a 1 liter bottle of shampoo that is only half-full. About how many milliliters of shampoo does she have in the bottle?
- ____
- j. Mr. Perkins changed the oil in his car. He bought 6 liters of oil. He put 4,500 mL in his car. How many milliliters of oil did he have left?