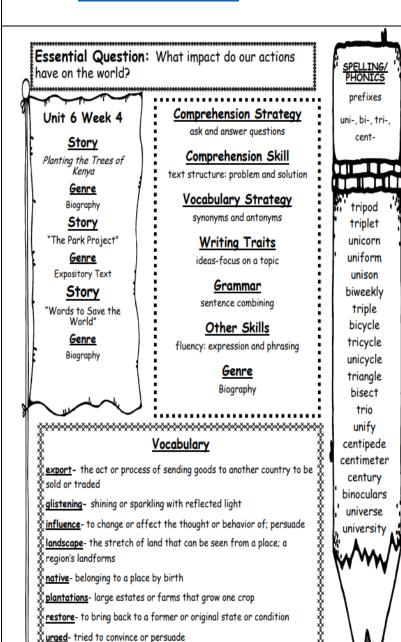
#### 5<sup>th</sup> Grade- Mrs. Bishop & Mr. Goreham Week 4

#### **Weekday Contact Hours**

Mrs. Bishop: 1:30-3:30

Contact: <a href="mailto:cbishop@tusd.net">cbishop@tusd.net</a> and Class Dojo

Mr. Goreham: 11:00-1:00 Contact: dgoreham@tusd.net



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MATH: Estimation and Multiplication
Solve word problems involving (+/-) of fractions

M: L8 Est. Products 125, 129, 130 T: L9 X 1-Digit #s 131, 135, 136 W: L10 X 2-Digit #s 137, 141, 142

Th: Review Multiplication

READING: Daily Reading & Summary Understands 5<sup>th</sup> literature/informational text

**Text:** Pick books you enjoy ☺

Please read 30 minutes M-Th and write a summary of what you've read.

WRITING: Opinion

Writing:

Text: "Words to Save the World" (in

packet)

☐ Write a response using text evidence.

Comprehension Skill/Strategy with Science:

**Text:** "The Father of Earth Day" Answer Questions

**Vocabulary Skill:** Write sentences

Vocabulary Strategy: Synonyms and

Antonyms

**Grammar: Adverbs that Compare** 

□ Combining Sentences

Spelling:

Complete the spelling page.

Complete the spelling activities:

□ Number Prefixes.

☐ Write spelling sentences or a story.

Science: "What is Matter?"

**Social Studies:** "The Two Harriets,

Heroines of Abolition"

5.NBT.5

#### **Estimate Products**

#### Lesson 8

#### **ESSENTIAL QUESTION**

What strategies can be used to multiply whole numbers?

When a problem asks for *about* how many, you can use estimation, rounding, and/or compatible numbers. **Compatible numbers** are numbers in a problem that are easy to compute mentally.



#### Math in My World





#### Example 1

A pet store has 12 gecko lizards for sale. Each gecko lizard costs \$92. About how much money would the store make if it sells all 12 gecko lizards?

Estimate the product of 92 and 12.

One Way Round one factor.

**THINK** It is easier to compute  $92 \times 10$  than  $90 \times 12$ .

2

× 1





Find 92  $\times$  10 mentally.

By rounding one factor, the estimate is \_\_\_\_\_\_.

Another Way Round both factors.

9



Round 12 to the nearest ten.

Find 90  $\times$  10 mentally.

By rounding both factors, the estimate is \_\_\_\_\_\_.

#### MY Homework

Lesson 8

Estimate Products

South

Uruguay

#### Homework Helper 📸



Need help? connectED.mcgraw-hill.com

Mountain View Elementary is sending 21 boxes of magazines to a school in Uruguay. There are 154 magazines in each box. About how many magazines are they sending?

Estimate the product of 21 and 154.



Round 154 to the nearest ten. Round 21 to the nearest ten.

Find 150  $\times$  20 mentally.

By rounding both factors to the nearest ten, the estimate is about 3,000 magazines.

#### Another Way Use compatible numbers.

Use numbers that are easy to multiply mentally such as 200 and 20.

Find 200 × 20 mentally.

By using compatible numbers, the estimate is about

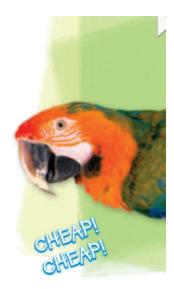
4,000 magazines.

#### **Practice**

Estimate by rounding or using compatible numbers. Show how you estimated.

#### Problem Solving

- 4. For a school assembly, students sit in chairs that are arranged in 53 rows. There are 12 chairs in each row. About how many students can be seated? Show how you estimated.
- Klara bought a dozen bags of bird food for \$27. Use compatible numbers to find the approximate cost of six dozen bags of bird food. Show how you estimated.



6. PRACTICE Find the Error Rico is estimating 139 × 18. Find his mistake and correct it.

 $100 \times 10 = 1,000$ 

#### Vocabulary Check

Fill in the blank with the correct term or number to complete the sentence.

Compatible numbers are numbers in a problem that are easy to compute \_\_\_\_\_\_.

#### **Test Practice**

- 8. On a cross-country vacation, Maria filled her 14-gallon gas tank eleven times. Which is the best estimate of how many gallons of gas she put in the tank altogether?
  - 75 gallons
- ② 200 gallons
- 150 gallons
- ② 225 gallons

130 Need more practice? Download Extra Practice at connectED.mcgraw-hill.com

Lesson 9

#### ESSENTIAL QUESTION

What strategies can be used to multiply whole numbers?

#### **Multiply** by **One-Digit Numbers**



#### Math in My World









FUN!



Grace and her three friends each paid \$38 for an admission ticket to an amusement park. The total HUGE paid can be found by multiplying 4 and 38.

Find  $38 \times 4$ .



#### Multiply the ones.

 $8 \text{ ones} \times 4 = 32 \text{ ones}$ 

Regroup 32 ones as

3 tens and 2 ones.



#### Multiply the tens.

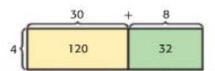
 $3 \text{ tens} \times 4 = 12 \text{ tens}$ 

Add any new tens.

12 tens + 3 tens = 15 tens

So, the total amount paid for admission to an amusement park is

Check You can use an area model to check your answer.



#### MY Homework

Lesson 9

Multiply by One-Digit Numbers

#### Homework Helper



Need help? connectED.mcgraw-hill.com

2

The world's largest cactus is 5 times as tall as the cactus shown. How tall is the world's largest cactus?

Find  $15 \times 5$ .

Estimate  $20 \times 5 = 100$ 

1

#### Multiply the ones.

5 ones  $\times$  5 = 25 ones Regroup 25 ones as 2 tens and 5 ones.

2

Multiply the tens.

1 ten  $\times$  5 = 5 tens

Add any new tens.

5 tens + 2 tens = 7 tens

So, the world's largest cactus is 75 feet tall.

Check Compare to the estimate. 75 ≈ 100



#### **Practice**

Estimate. Then multiply. Use your estimate to check your answer.



5. Each student in Mrs. Henderson's science class brought in 3 books for the book donation. If there are 25 students in the class, how many total books did they collect?

6. Karen and Anthony are setting up rows for the piano recital. They set up 24 rows with 6 chairs in each row. How many total people will the rows seat?

7. Veronica brought her turtle out of its aquarium for 15 minutes every night for 7 days. How many total minutes did she bring her turtle out of its aquarium?

#### **Test Practice**

- 8. A restaurant has 36 tables. If each table can sit five people, how many people can be seated at the restaurant?
  - 216 people
  - 180 people
  - 150 people
  - 41 people

5.NBT.5

#### **Multiply by** Two-Digit Numbers

#### Lesson 10

#### **ESSENTIAL QUESTION**

What strategies can be used to multiply whole numbers?



#### Math in My World





#### Example 1

Domestic cats can run up to 44 feet per second on land. At this rate, how many feet could a cat run in 12 seconds?

Find 44 × 12.

Estimate  $44 \times 10 =$ 



Multiply the ones.

$$44 \times 2 = 88$$

Multiply the tens.

$$44 \times 10 = 440$$



धारि फिर्लिड

By estimating first, you can determine if your answer is reasonable.



Add.

$$88 + 440 = 528$$

So, a domestic cat can run \_\_\_\_\_\_ feet in 12 seconds.

Check Compare to the estimate.

#### MY Homework

Lesson 10

Multiply by **Two-Digit Numbers** 

#### Homework Helper



Need help? connectED.mcgraw-hill.com

Alicia lives in Nashville, Tennessee. Last year her family drove to Atlanta, Georgia, each month to visit her grandmother. Find the total distance they drove to visit her grandmother for the year.

Destination City From Nashville	Round-Trip Distance (mi)
Atlanta	498
Raleigh	1,080

Find 498 × 12.

**Estimate**  $500 \times 10 = 5,000$ 

Multiply the ones.

$$498 \times 2 = 996$$

498

- 12 996
- Multiply the tens.

4,980

996 + 4,980 = 5,976

So, they drove a total of 5,976 miles for the year.

**Check** Compare to the estimate.  $5,976 \approx 5,000$ 

#### **Practice**

Add.

Estimate. Then multiply. Use your estimate to check your answer.

4. Ms. Jenkins was arranging chairs for a school awards assembly. Each row contained 15 chairs. If there were 21 rows, how many chairs had to be arranged?

- 5. Leon earns \$14 an hour. How much does he earn in 4 weeks if he works 12 hours each week?
- 6. PRACTICE Use Math Tools Without actually calculating, how much greater is the product of 98 × 50 than the product of 97 × 50?
- 7. The table shows Katrina's prices for dog walking. If she walks 5 mediumsized dogs and 8 large-sized dogs for 12 weeks, how much will she earn?

Dog Type	Cost Per Week (\$)
Small	10
Medium	12
Large	14
	600
•	S
	2 C
6	and I

#### **Test Practice**

- 8. Each day there are 12 tours at the glass factory. Twenty-eight people can go on a tour. How many people can tour the glass factory each day?
  - 236 people
- © 336 people
- 280 people
- 436 people

#### **Review**

Estimate. Then multiply. Use your estimate to check your answer.

Find each product mentally using the Distributive Property. Show the steps that you used.

Name

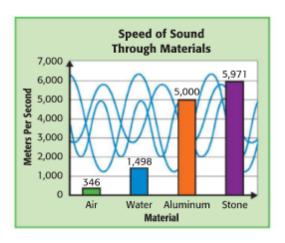


#### **Problem Solving**

For Exercises 21–23, use the following information. Then estimate to find the distance sound travels through each material in each given time.

Sound travels through different materials at different speeds. For example, the graph shows that in one second, sound travels 5,971 meters through stone. However, it travels only 346 meters through air in one second.

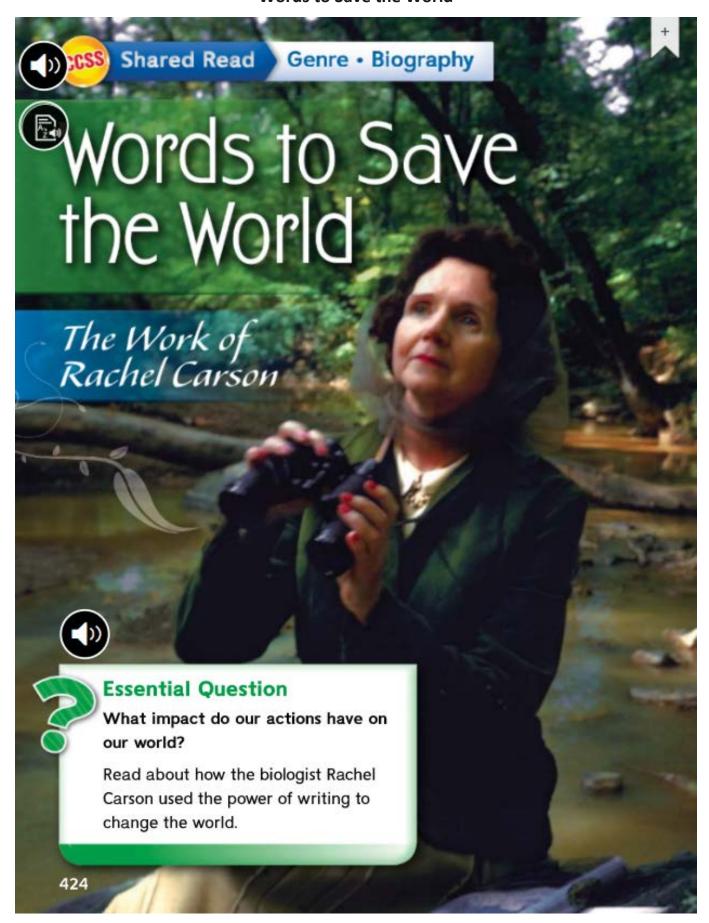
air, 20 seconds



- 22. stone, 12 seconds
- 23. Estimate how much farther sound travels through stone in 17 seconds than through aluminum in the same time.
- 24. Sylvia is saving to buy a new terrarium for her iguana. She saves \$2 the first week, \$4 the second week, \$8 the third week, and so on. How much total money will she save in 5 weeks? Solve by completing the table.

Week	1	2	3	4	5
Amount Saved (\$)	2	4	8		





she became fascinated

Dometimes, the quietest voice can spark the most clamorous outrage. Combining her love of nature with a belief in scientific accuracy, the soft-spoken writer Rachel Carson raised awareness about environmental issues. As a result, the U.S. government strengthened the rules and regulations regarding the use of chemical pesticides. Many people consider Rachel's book Silent Spring the foundation of today's environmental movement.

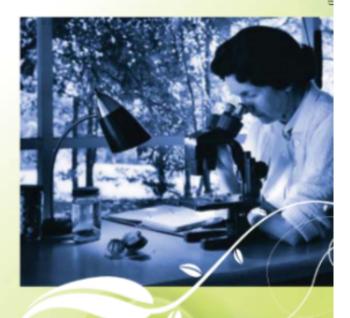
#### **Early Influences**

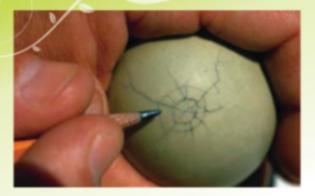
Rachel was born in Springdale,
Pennsylvania, in 1907. Throughout
her childhood, her mother
encouraged her to explore the
landscape surrounding the
family's farm. Often equipped with
binoculars, Rachel developed a love
of nature that affected many of
her decisions. For example, she first
chose to study English literature and
writing when she went to college.
However, she later decided to study
biology. While studying at a marine

 Rachel preferred working alone as she gathered information. laboratory, she became fascinated by the glistening and shimmering seascape.

From an early age, Rachel had loved to write. These writing skills proved useful to her career. She began by creating radio programs for the U.S. Bureau of Fisheries. She then became an editor and librarian for the agency. While she was working, she submitted her own articles to newspapers and magazines. Rachel eventually published three books about the ocean and its native plants and animals. This trilogy included Under the Sea-Wind, The Sea Around Us, and The Edge of the Sea.

Rachel supported her ideas with well-researched facts.





Rachel Carson's research revealed that DDT caused damage to birds and eggs.

#### A Call to Action

The success of Rachel's books allowed her to devote more time to her own projects. She built a cottage close to the sea on the coast of Maine. Soon, however, a letter arrived from some old friends, Olga and Stuart Huckins. They described problems resulting from the spraying of DDT on their private wildlife sanctuary. Chemical companies had developed DDT as an effective solution to crop-eating insects on farms and plantations. At the Huckins's sanctuary, however, the chemical also seemed to be harming birds.

In response, Rachel hired assistants to help research the Huckins's claim. Worried by the slow pace of their work, she decided to continue alone. By publishing her findings, she hoped to warn about the dangers of these new chemicals. In order to dramatize the situation, she urged readers to imagine a world without songbirds. The book's title, Silent Spring, describes this possible result of pesticide abuse.

Silent Spring prompted readers to raise their voices in unison against the chemical corporations. They demanded an investigation into pesticides and implored the government to restrict their use. In response, President John Kennedy created a Congressional committee to study the matter. Rachel testified before this group and provided facts and information to influence its decisions.

Though a pesticide may target insects, animals can also feel its effects.

Sample Food Chains				
TROPHIC LEVEL	GRASSLAND BIOME	OCEAN BIOME		
Primary Producer	gr <b>ass</b>	phytoplankton		
Primary Consumer	grasshopper	zooplankton		
Secondary Consumer	rat 🥌	fish		
Tertiary Consumer	snake	seal		





#### A Strong Reaction

Meanwhile, the chemical companies struggled to counter Rachel's claims. Despite her reasonable approach to the problem, they tried to depict her accusations as irrational. They published articles and reports that mocked her writing style and belittled her ideas. Advertisements on television proclaimed the safety of their products. When these ads did not change public opinion, they pulled financial support from programs that featured Rachel.

Rachel worried that once pesticides poisoned an area, it might be impossible to restore the

Carson understood the power her words had to educate others, especially children. environment to its original state.
"Man's attitude toward nature is
today critically important simply
because we have now acquired a
fateful power to alter and destroy
nature," she said in an interview.
Her testimony led to restrictions
on certain pesticides in the United
States. Even so, chemical companies
continued to produce them for
export to other countries.

Rachel Carson died shortly after Silent Spring was published, but her voice survives within her books. Her love of nature endures, along with her quiet desire to preserve and protect the natural world.



#### **Make Connections**

What impact did the publication of *Silent Spring* have on the makers of pesticides such as DDT? ESSENTIAL QUESTION

Think about a time when you wrote or spoke about something that needed to change. What impact did your words have?

**TEXT TO SELF** 





## Write to Sources

# Write About the Text



Pages 424-427



I answered the question: In your opinion, does pesticides? Use text evidence. the author show any bias about the use of

## Student Model: Opinion

I don't think the author shows any



Strong Opening opinion in response to by clearly stating my My paragraph begins the question.

of pesticides on nature. The author to warn people about the effects author tells how Rachel Carson worked bias about the use of pesticides. The never states that pesticides are bad

### Transitions

I connected my opinion to relevant evidence.

how Rachel issued a call to action by

writing a book, asking people to think

about a life without birds, and speaking

before Congress. The government, not the author, decided to restrict

or ban some pesticides in the United

States. If these chemicals weren't

have done this. harmful, the government wouldn't

could cause. Then the author describes

researched the damage pesticides

Instead, the author tells how Rache

### Grammar

with the noun birds the preposition phrase begins with This prepositional without and ends

Grammar See page 472 Handbook

## Focus on a Topic

my opinion. reasons to support I provided logical

### Ē

## Your Turn

pesticides be banned? Use In your opinion, should all text evidence.





433

Use your editing checklis

#### **WRITING:**

Use the writing page before this, titled "Write About the Text" as a guide to answer the following question.

In your opinion, does the author have any bias towards the use of pesticides? Explain your answer using text evidence.

•	

#### **Comprehension Skill:**

#### **Your Turn Practice Book**

Comprehension and Fluency

Name		
Name		
1101110		

Read the passage. Use the ask and answer questions strategy to guide your reading.

#### The Father of Earth Day

Imagine a world where black clouds of pollution blanketed the sky and rivers ran orange from toxic waste. What would the world be like if the soil was too poisoned to grow food and bald eagles had been hunted to extinction? That world might exist today, if not for the actions of Senator Gaylord Nelson.

#### A Commitment to Conservation

Gaylord Nelson developed an affection for nature growing up in the woods of northern Wisconsin. As an adult, he brought his love of the land to his political career. When he became governor of Wisconsin in 1959, he worked hard to protect and care for his state's natural resources. His Outdoor Recreation Acquisition Program preserved thousands of acres of unspoiled land. The program bought private lands and turned them into wildlife habitats and public parks. Nelson also created a Youth Conservation Corps. The Corps taught young people about the environment while giving them jobs cleaning and caring for the state's natural areas.

In 1962 Nelson was elected to the U.S. Senate. He hoped to do for the country what he had done for the state of Wisconsin: protect the environment. He found that few of his fellow senators shared his concerns. Nelson hoped President John F. Kennedy could generate support for environmental issues. In 1963 the senator helped plan a national conservation tour for the president, but the tour did not create the support for environmental issues that Nelson hoped it would.

## Doug Menuez/Photodisc/Getty Image

#### Taking It to the People

Senator Nelson decided to find another way to show Congress that it was important to care for the environment. In 1969, after visiting the site of an oil spill, he read about college students protesting against the Vietnam War. Why not plan a protest against pollution?

At the time, pollution was a big problem. There were no laws about clean air or clean water. Nelson wanted Congress to pass such laws, but he needed to show that people supported the legislation. He hoped a nationwide protest would do that.

Nelson called for pro-environment demonstrations around the country. The protests were held on April 22, 1970, the day Nelson called Earth Day. About 20 million people across the country took part.



Earth Day's message helped make changes that better protect our environment.

Congress heard the message. It created the Environmental Protection Agency. During the next few years, Congress passed some of the country's most important environmental legislation. These laws included the Clean Water Act, the Clean Air Act, and the Endangered Species Act.

Gaylord Nelson left the Senate and politics in 1981, but he did not stop his conservation work. He took a job with the Wilderness Society, an organization that works to protect public wild lands. In 1995, President Bill Clinton gave Nelson the Presidential Medal of Honor for his environmental work.

#### Nelson's Legacy

Gaylord Nelson died in 2005, but Earth Day lived on. Every year since 1970, people around the world have gathered on April 22 to celebrate the environment. The message of the demonstrations, however, has changed over the years. Instead of calling for political action, Earth Day protests now focus on what private individuals can do to help the environment. As Gaylord Nelson showed, one person can do quite a lot.

Na	ame
Α.	Reread the passage and answer the questions.
1.	What problem did Gaylord Nelson encounter in the U.S. Senate when he tried to get support for environmental issues?
2.	What gave Senator Nelson an idea for a solution?
3.	In what way did Senator Nelson's call for demonstrations on Earth Day help the environment?

B. Work with a partner. Read the passage aloud. Pay attention to expression and phrasing. Stop after one minute. Fill out the chart.

	Words Read	-	Number of Errors	=	Words Correct Score
First Read		-		=	
Second Read		-		=	

#### **Vocabulary SKILL:**

#### **Your Turn Practice Workbook**

Na	ame			Vocabular
(	export	glistening	influence	landscape
U	native	plantations	restore	urged
		lete sentence to answ ne vocabulary word in	•	low. In your
1.	Where wou	ıld be a good place to	photograph a landsc	ape?
2.				
3.	What migh	t <b>influence</b> you to buy	something?	
4.	Where are	fruit <b>plantations</b> likely		
5.	What is sor	mething that is found in		?
6.	When has	someone <b>urged</b> you to	do something?	
7.	How could	someone <b>restore</b> an o	ld desk?	
8.	Why might	a company decide to	<b>export</b> a particular p	roduct?

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IN	ame
an	ad each passage and underline the word that is either a synonym or antonym for the word in bold. Use the synonym or antonym to write a finition of the word in bold.
1.	Gaylord Nelson developed an <b>affection</b> for nature growing up in the woods of northern Wisconsin. As an adult, he brought his love of the land to his political career.
2.	When he became governor of Wisconsin in 1959, he worked hard to protect and care for his state's natural resources. His Outdoor Recreation Acquisition Program preserved thousands of acres of unspoiled land.
3.	The program purchased <b>private</b> lands and converted them into wildlife habitats and public parks.
4.	Nelson hoped President John F. Kennedy could <b>generate</b> support for environmental issues. In 1963 the senator helped plan a national conservation tour for the president, but the tour did not produce the amount of support for environmental issues that Nelson hoped it would.
5.	Nelson wanted Congress to pass such laws, but he needed to show that people supported the <b>legislation</b> .
6.	Nelson called for pro-environment <b>demonstrations</b> around the country.  The protests were held on April 22, 1970, the day Nelson called Earth Day.

unison	triplet	unicorn	tripod
dilison	triplet	difficulti	tripod
biweekly	bicycle	tricycle	unicycle
triangle	bisect	trio	uniform
centimeter	century	binoculars	universe

Name \_\_\_

Read each definition below. Use clues in the definition, such as numbers and root words, to write the word from the box that matches the definition.

1.	a shape with three angles	
2.	one hundredth of a meter	
3.	to separate into two sections	
4.	a cycle with three wheels	
5.	a mythical animal with one horn	
6.	a piece of clothing for one purpose	
7.	happening every two weeks	
8.	a stand with three legs	
9.	a period of one hundred years	
10	an optical device with two sets of lenses	
11.	a cycle with only one wheel	
12.	a group of three people	

tripod

triplet

unicorn

uniform

unison

triple

bicycle

biweekly

university

centimeter

tricycle

unicycle

triangle

bisect

- 1. uni + verse =
- 2. tri + angle =
- 3. bi + noculars =
- 4. cent + imeter =
- tri + ple =
- uni + corn =
- 7. bi + weekly =
- 8. uni + versity =
- tri + pod =
- 10. tri + o =
- 11. cent + ipede =
- 12. uni + form =
- 13. bi + sect =
- 14. tri + plet =
- 15. uni + son =

- ·———
- .
- \_\_\_\_
- .
- ·----
- .\_\_\_\_
- \_\_\_\_

B. Write these spelling words on the lines in reverse alphabetical order: tricycle, unicycle, century, unify, bicycle.

- 16. \_\_\_\_\_
- 18. \_\_\_\_\_
- 20. \_\_\_\_\_

- 17. \_\_\_\_\_
- 19. \_\_\_\_\_

tricycle unicycle triangle bisect

trio unify centipede centimeter century binoculars universe university

A. Write the spelling words that begin with each prefix.

uni-

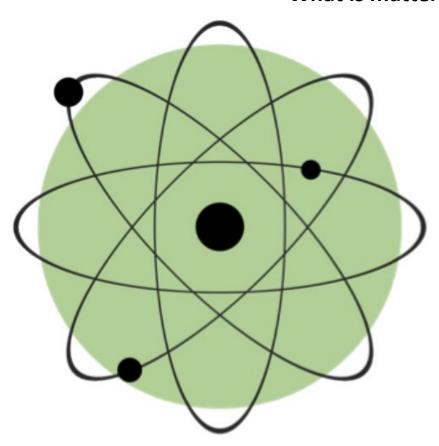
- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- bi-
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11.

tri-

- 12. \_\_\_\_\_
- 13. \_\_\_\_\_
- 14.
- 15.
- 16. \_\_\_\_\_
- 17. \_\_\_\_\_
- cent-
- 18. \_\_\_\_\_
- 19. \_\_\_\_\_
- 20. \_\_\_\_\_

B. Compare the words *tricycle* and *unicycle*. How are they alike? How are they different?

#### What is matter?



Everything around us is made of matter—your clothes, the trees, even the water you drink! We divide matter into four major categories, which are called the four states of matter: liquid, gaseous, solid, and plasma. However, we will focus on the first three. Whatever the state of matter may be, all matter is made of tiny particles called atoms. These particles are too tiny to see with the naked eye; they're even too small to see with a regular microscope. If you line up a million atoms next to each other, they will be as thick as a single piece of human hair. So, we can only look at atoms through very powerful tools, one of them being the "scanning tunneling" microscope.

#### **How Do We Know?**

We can easily see liquids and solids around us, but most gases aren't visible. We can't see the air around us, but it is still made of atoms that constantly move around freely in space. How can we tell?

Take a balloon, for example. When we pump air into a balloon, it visibly inflates. That means that gaseous matter is filling the balloon and taking up space. The more air we blow into the balloon, the bigger it gets. Therefore, we can observe the way gas moves around space. In the same way, inflatable pool toys also fill with air so that they can float on water. When we fill the plastic shells with air, the toys take shape. Since air is lighter than water, the pool toys can rest on the water without sinking. And then we can enjoy a sunny day while floating in a pool!

#### **Moving Atoms**

Atoms are constantly moving. However, atoms move at different speeds within different states of matter. Atoms move more slowly when they are more densely packed. Atoms in solids are usually tightly packed and have less space to move around freely. This means that atoms in most solids move more slowly than atoms in most liquids. The atoms in gas usually move the fastest. Since the atoms usually move more freely in liquids and gases, they can undergo a process called diffusion. (Solids can diffuse as well, although it's a much longer process.) Diffusion is the movement of particles from a higher concentration to a lower concentration. That's why, when you spray perfume in a corner of a room, you will eventually smell it on the other side of the room. The atoms from the perfume diffuse through the air. Because of this diffusion, the perfume scent is spread.

#### **Identification**

We can identify materials according to a variety of properties. Scientists have determined several different measurements to help label materials. Some examples are temperature, hardness, color and length. Usually, these are used to measure solids, like rocks and minerals. However, temperature can be used to measure liquids as well. When geologists study rocks, they often use the Mohs scale of mineral hardness. This scale allows us to characterize the scratch resistance of various minerals. A diamond is described as hard because it is extremely difficult to scratch. Scientists can measure hardness with the Mohs scale and compare minerals to other minerals.

Scientists always use various methods to group materials together—that way, it's easier to study and compare them. That's another reason why we differentiate between liquids, gases, solids and plasmas!

Name:	Date:	
Everything around us is made of		
A. liquids		
B. matter		
C. plasma		
D. gas		

- 2. Why does the author describe the balloon and inflatable pool toys filling up with air?
  - A. in order to explain that it is impossible to observe the way gas moves around space
  - B. in order to explain that air is not made of atoms that take up space
  - C. in order to explain that air is made of atoms that take up space even though air is invisible
    - D. in order to prove that these are fun objects to inflate

3. Usually, atoms move slower in solids than they do passage best supports this statement?	in liquids. Which evidence from the
A. Solids, liquids, and gases can all undergo the	process of diffusion.
<ul> <li>B. Diffusion is the movement of particles from a h concentration.</li> </ul>	nigher concentration to a lower
C. The atoms in gas move the fastest.	
D. Atoms in solids are often more tightly packed space to move around freely.	than atoms in liquids, and have less
4. Based on the passage, the corner where a perfum	ne is initially sprayed has
A. has no concentration of perfume particles	
B. has the same concentration of perfume particle	es as the rest of the room
C. a lower concentration of perfume particles tha	in the other corners of the room
D. a higher concentration of perfume particles that	an the other corners of the room
5. What is this passage mainly about?	
A. matter and the properties it has in certain state	s
B. the process of diffusion	
C. the different measurement scientists use to lab	pel materials
D. the inflation of balloons and pool toys	
<b>6.</b> Read the following sentences from the passage: "Vector be, all matter is made of tiny particles called atoms. To with the naked eye; they're even too small to see with up a million atoms next to each other, they will be as hair."	These particles are too tiny to see n a regular microscope. If you line
The author uses the example of "a single piece of h	uman hair" to illustrate
A. how atoms can be seen with a regular microsc	оре
B. how tiny atoms actually are	
C. how hairy atoms actually are	
D. how much they look like hair	
7. Choose the answer that best completes the sente	ence below.
Scientists group materials together it	t is easier to compare and study

them that way.

A. however

C. although D. because

B. but

#### The Two Harriets, Heroines of Abolition





Harriet Beecher Stowe

Harriet Tubman

Many people fought against slavery in the United States. They were called abolitionists because they wanted to abolish (get rid of) slavery. Two of the best-known abolitionists were both named Harriet: Harriet Beecher Stowe and Harriet Tubman.

Harriet Beecher Stowe was the sixth of 11 children born to a minister and his wife. She was just five years old when her mother died. At age 13, she started going to a school founded by her sister, where she learned to be a teacher and started writing. She wrote her first book at age 22.

In 1852, her novel *Uncle Tom's Cabin* was published. It quickly became a bestseller. Indeed, it was the most popular book in America. Although the book was fiction, it was based on the lives of real people. The novel tells the story of several slaves, but its main character is Tom, a man with a wife and children. Tom is separated from his family and sold to one plantation owner after another. The last of his owners is a cruel man named Simon Legree. Legree orders Tom to beat the other slaves on his plantation. Tom refuses, so Legree beats Tom. Legree orders his hired hands, called overseers, to kill Tom. While Tom dies, several of the other characters in the book escape from slavery by traveling north to Canada via what was called the Underground Railroad. The Underground Railroad was not an actual railroad, but a network of people who helped shelter and guide slaves to their freedom.

Stowe's novel moved many readers and inspired them to speak out against slavery. Many plays were performed based on the novel's characters. But her book angered people in the South, and historians believe it helped lead the Southern states to break away from the North a decade later, which marked the beginning of the Civil War. Uncle Tom's Cabin was so influential that when President Abraham Lincoln met Stowe in 1862, he is supposed to have said: "So you're the little woman who wrote the book that started this great war."

Like Harriet Beecher Stowe, Harriet Tubman was one of 11 children. Both of Harriet Tubman's parents were slaves on a plantation in Maryland. Tubman began working at six years old, rented out by her "master" as a weaver. As a teenager, she began working in the fields of the plantation. She suffered many beatings at the hands of the plantation's overseers, which caused permanent damage. Learning that the plantation owner planned to sell her and her brothers, she decided to escape. Guided only by the North Star in the sky, she made her way to Pennsylvania, frequently on foot.

But Tubman was not content simply to live in freedom. She became active in the Underground Railroad Harriet Beecher Stowe had written about.

Just one year after her own escape, she returned to the South to rescue her sister and her sister's two children. Then she returned once again for one of her brothers. Sometime later, she returned yet again to rescue her parents. It was not just her family she helped to become free. She wanted to help other slaves to escape. She returned to the South 19 times. The exact number of slaves that Tubman led to freedom is unknown; a 19<sup>th</sup> century biography stated that she rescued 300 slaves, while modern historians estimate the total was closer to 70.

During the Civil War, Tubman worked for the Union Army as a nurse and a cook. She also became a spy. In one daring mission, she learned the position of the Confederate Army along the Combahee River in South Carolina and traveled on a gunboat with hundreds of Union Army soldiers as they freed about 750 slaves.

Both Harriets lived fruitful lives long past the Civil War. Harriet Beecher Stowe continued to write, publishing more than 30 books. In her 80s, Harriet Tubman opened a nursing home in her adopted hometown of Auburn, NY for older African Americans. Both spoke out for women's rights. But Harriet Tubman and Harriet Beecher Stowe are now recognized for their different but important roles in ending slavery in the United States of America.

- 1. What is an abolitionist?
  - A. someone who was in favor of slavery
  - B. someone who was well-educated
  - C. someone who wanted to get rid of slavery
  - D. someone who has escaped from slavery
- 2. How does the author compare Harriet Tubman and Harriet Beecher Stowe?
  - A. They were both abolitionists.
  - B. They were both African-Americans.
  - C. They were both famous authors.
  - D. They both worked for the Union Army.
- 3. Harriet Tubman's work to improve the lives of African-Americans continued after the Civil War. What evidence from the passage supports this conclusion?
  - A. "But Tubman was not content simply to live in freedom. She became active in the Underground Railroad Harriet Beecher Stowe had written about."
  - B. "In her 80s, Harriet Tubman opened a nursing home in her adopted hometown of Auburn NY for older African-Americans."
  - C. "Just one year after her own escape, she returned to the South to rescue her sister and her sister's two children. Then she returned once again for one of her brothers."
  - D. "During the Civil War, Tubman worked for the Union Army as a nurse and a cook. She also became a spy."