

Week 4

5th
Grade

Independent Study Packet

 Education.com

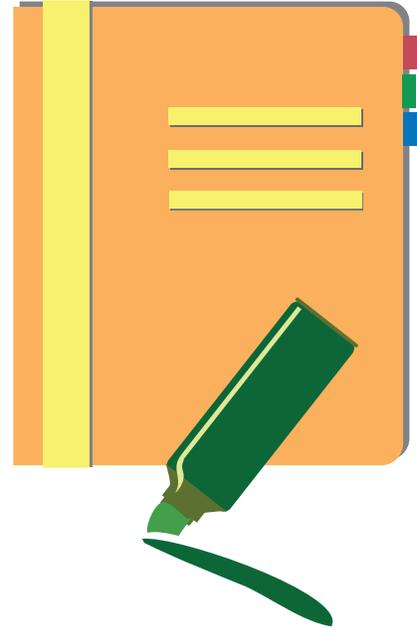


5 MORE Days of
Independent Activities in
Reading, Writing,
Math, Science, and Social Studies

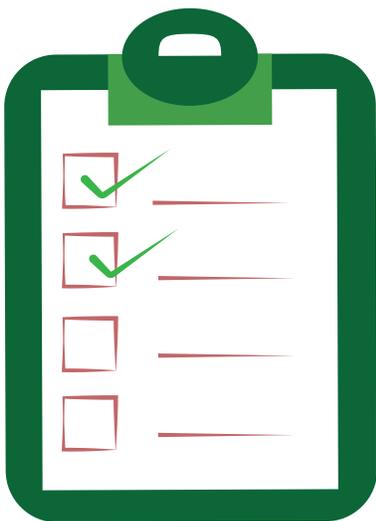
Helpful Hints for Students and Families

Materials You Will Need:

- Pencils
- Extra paper or a notebook/journal (You may put everything into one notebook if you like.)
- Colored pencils, markers, or crayons for some of the activities
- Copy paper or poster paper
- Internet access for online research
- Extra supplies for the Science and optional Design activities



Directions & Tips



- There is a schedule for each day.
- Read the directions carefully before completing each activity.
- Check off each of the activities when you finish them on the menu.
- Make sure to plan your time so that you don't let things pile up at the end.
- Make sure an adult signs the activity menu before you bring it back to school.
- You may complete these activities in any order.

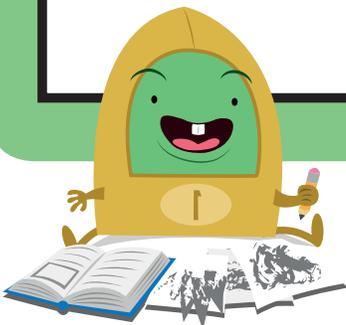
Activity Menu

	Day 1	Day 2	Day 3	Day 4	Day 5
Reading 	Read for 20 minutes and complete the daily reading activity.				
	Write a Letter to the Author	Act Out a Commercial	Make a Mind Map	Make a Movie Trailer	Make a Found Poem
	What is Science Fiction?	What is Fantasy?	What is Mystery?	What is a Biography?	What is a Memoir?
Writing 	My "Best Self" Timeline	Feelings Word Search	Perseverance Journal	Seeing Things from Another Angle	Perseverance in Challenging Times
Grammar Practice 	Grammar: Suffixes	Suffix Clues	Common Suffixes and Their Meanings	Circle the Prefixes!	Prefix Pond
Math 	Census Data : Working for a Living 1	Census Data : Working for a Living 2	Census Data : Working for a Living 3	Ninja Word Hunt	Secret Code Math
Social Studies	Learn About the United States.	Alphabetize the United States U.S. Expansion: Color by History 50 States Quiz			
Science	Solar System Science	Fun Facts About the Sun Solar and Lunar Eclipses Identifying the Moon's Phases			
Optional	What Causes the Phases of the Moon?				

Parent/Guardian Signature: _____

Day 1

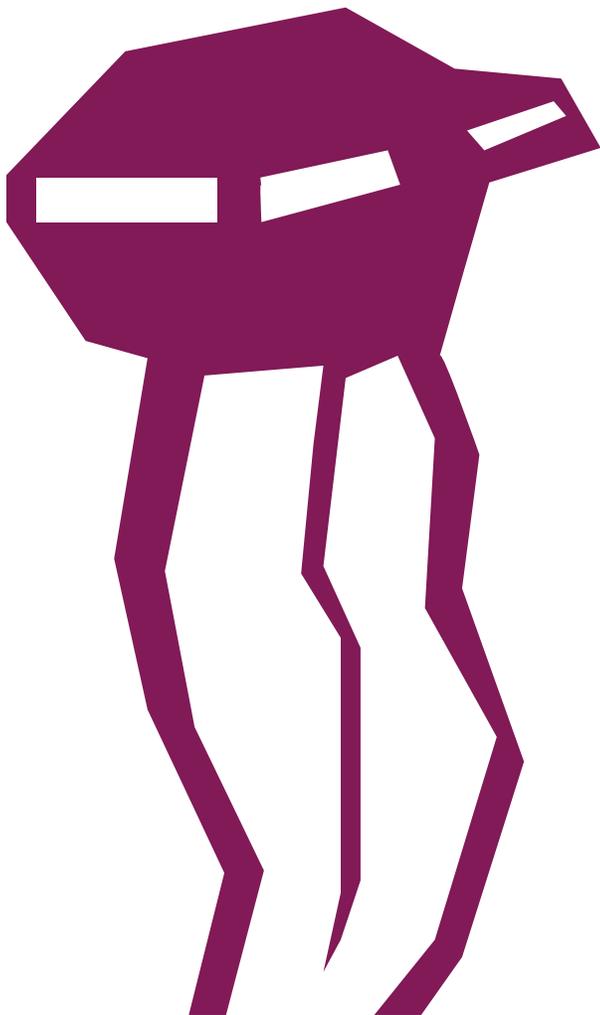
Independent Reading Activity	Choose a book you love and write the author a letter about why. Be sure to use evidence from the book. You can even research the publisher of your book and email the author your letter. (Only if you have adult permission!)
Reading	Discover the genre of science fiction and identify parts of the genre in quotes. Then, write an adventure story about time travel.
Writing	Think about when you were your best self today, when you made good decisions, or were kind to others. In this week-long worksheet, you'll add to your best self timeline.
Grammar Practice	Practice dissecting word structure as you read through a list of common suffixes. Then practice adding suffixes to words.
Math	Order numbers from real-life data up to the millions place. Then compare and order jobs and their total number of workers from greatest to least in a blank table.



LEARNING GENRES

SCIENCE FICTION

The science fiction (or sci-fi) genre is a type of fiction. It can be any imaginary story that involves science and/or technology that's more advanced than what exists today. Sci-fi can include anything from mad scientists to outer space exploration. Most science fiction stories take place in the future. They are also less believable than regular fiction stories because the technology or science in question is only theoretical—it's not something we can find in the real world ... yet.



H.G. Wells: Wells was a British author of many books during the late 1800s and early 1900s. He is most famous for his science fiction books that remain popular today.

“And this Thing I saw! How can I describe it? A monstrous tripod, higher than many houses, striding over the young pine trees, and smashing them aside in its career; a walking engine of glittering metal, striding now across the heather; articulate ropes of steel dangling from it, and the clattering tumult of its passage mingling with the riot of the thunder. A flash, and it came out vividly, heeling over one way with two feet in the air, to vanish and reappear almost instantly as it seemed, with the next flash, a hundred yards nearer. Can you imagine a milking stool tilted and bowled violently along the ground? That was the impression those instant flashes gave. But instead of a milking stool imagine it a great body of machinery on a tripod stand.”

-*War of the Worlds* (1897)



Name some of the words and elements of this quote that tell you it is science fiction.

SCIENCE FICTION

Orson Scott Card: He is an American sci-fi author who is best known for his book *Ender's Game*. The book is set in the future at a time when the Earth is being constantly attacked by an alien species. The main character is a kid who trains at a *battleschool* and proves to be a genius capable of saving humanity.

“Ender smiled. He was the one who had figured out how to send messages and make them march—even as his secret enemy called him names, the method of delivery praised him. It was not his fault he was a Third. It was the government's idea, they were the ones who authorized it—how else could a Third like Ender have got into school? And now the monitor was gone. The experiment entitled Andrew Wiggin hadn't worked out after all. If they could, he was sure they would like to rescind the waivers that had allowed him to be born at all.”

-*Ender's Game* (1985)



What elements of this quote suggest it is science fiction?

Jules Verne: Verne was a French writer of fantastical stories. It was not until later that his style would become known as science fiction.

“There is a powerful agent, obedient, rapid, easy, which conforms to every use, and reigns supreme on board my vessel. Everything is done by means of it. It lights, warms it, and is the soul of my mechanical apparatus. This agent is electricity.”

“Electricity?” I cried in surprise.

“Yes, sir.”

“Nevertheless, Captain, you possess an extreme rapidity of movement, which does not agree well with the power of electricity. Until now, its dynamic force has remained under restraint, and has only been able to produce a small amount of power.”

“Professor,” said Captain Nemo, “my electricity is not everybody's and that is all I wish to say about it... I point out only this: I owe all to the ocean; it produces electricity, and electricity gives heat, light, motion, and, in a word, life to the Nautilus [the submarine].”

-*20,000 Leagues Under the Sea* (1870)

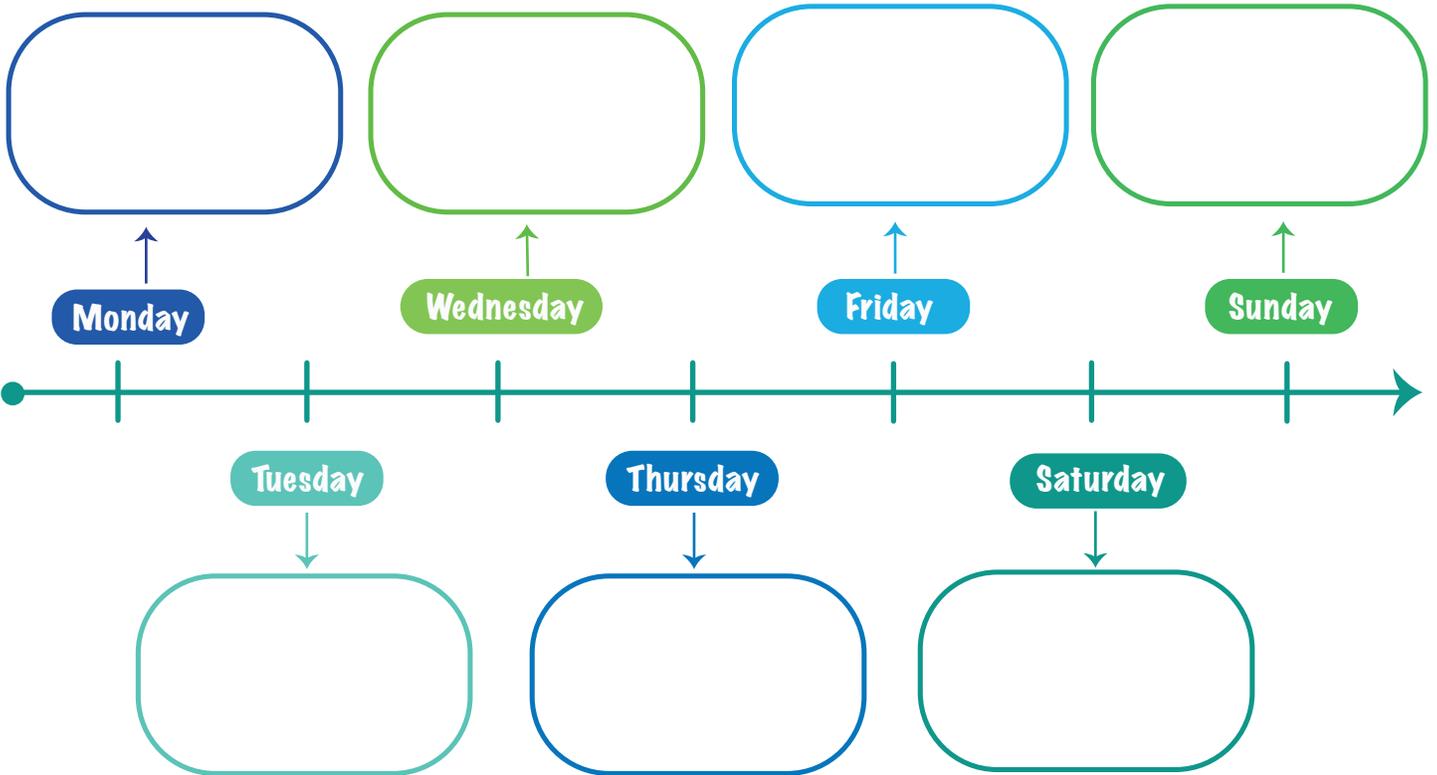


What elements of this quote suggest it is science fiction?

My "Best Self" Timeline

Directions:

1. Reflect over the past week on all of the ways you showed up as your "best self."
2. In the timeline below, write down each moment.



3. Draw a picture of a moment this past week where you were your best self.

Grammar: Suffixes



A **suffix** is added to the end of a root word to change the meaning of the word.

Draw a line from the suffix to its meaning. *Hint: If you're stuck, think of a word you know that ends with that suffix.*

- | | |
|------------------|--------------------------------|
| 1. -able | more than |
| 2. -ful or -full | characteristic or way of being |
| 3. -less | the most |
| 4. -y | action or state |
| 5. -ly | believes or does |
| 6. -ment | characterized by/inclined to |
| 7. -er | worthy of, able to |
| 8. -est | without |
| 9. -ness | full of |
| 10. -ist | is like |

Add a suffix to each root word so it matches the new definition.

Root words			
most	art	beauty	cost

Suffixes		
-ful	-ist	-ly

very pretty _____
expensive _____

a person who makes art _____
almost totally _____

Circle the words with suffixes in the paragraph below.

You don't have to be a botanist to grow your own food! The warmest time of year is best for planting some seeds, while others can only grow when planted during colder times. Some plants, like tomatoes, become droopy if you don't water them daily. You must make sure the soil has just the right amount of wetness for each type of plant. Gardening can be difficult, but the right knowledge can make it easier.

Census Data: Working for a Living 1

A census is a count of the number of people in a country, city, or town. The United States Census Bureau is responsible for collecting data on American citizens and the economy. The Census Bureau conducts a census every ten year. It conducts annual surveys during those ten-year periods.



Working for a Living 2017			
Selected jobs with more than one million full-time, year round workers			
Female Workers		Male Workers	
Customer service representatives	1,196,513	First-line supervisors of retail sales workers	1,515,173
Accountants and auditors	1,014,827	Janitors and building cleaners	1,188,748
Registered nurses	2,092,489	Retail salespersons	1,039,912
Elementary and middle school teachers	1,933,074	Drivers/sales workers and truck drivers	2,585,286
Secretaries and assistants	2,060,289	Construction laborers	1,242,848

Directions: Look at the data in the table above. Order those jobs from the largest to smallest number of workers and write them in the blank table.

Working for a Living			
Selected jobs with more than one million full-time, year round workers			
Female Workers		Male Workers	

Name _____

Date _____

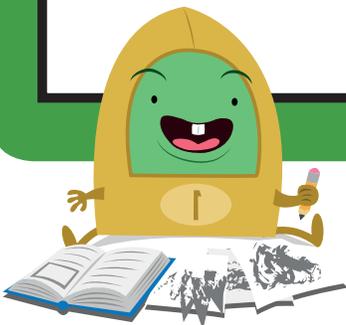
Place Value Chart: Millions

Directions: Write your numbers in the chart starting with the ones places and moving to the left to verify the place value of the digits.

Millions Period			Thousands Period			Ones Period		
Hundred Millions	Ten Millions	Millions,	Hundred Thousands	Ten Thousands	Thousands,	Hundreds	Tens	Ones

Day 2

Independent Reading Activity	Write a commercial to sell your book. Act it out for someone at home, and maybe even get it on video!
Reading	Learn more about the fantasy fiction genre by sharing passages from three well-known fantasy authors. Then get creative by drawing and describing a mythical character of your own invention!
Writing	Choose ten descriptive feeling words to write about and explain them to a family member. Then create a word search using your chosen words. (Continue working on your best self timeline.)
Grammar Practice	With a few clues and some common suffixes, practice transforming words in this worksheet. Write a sentence or two at the bottom of the paper using one of your new words.
Math	Round numbers to the nearest hundred thousands place using real-life data about jobs in the United States. Then write about whether rounding the numbers changes the information.



LEARNING GENRES FANTASY

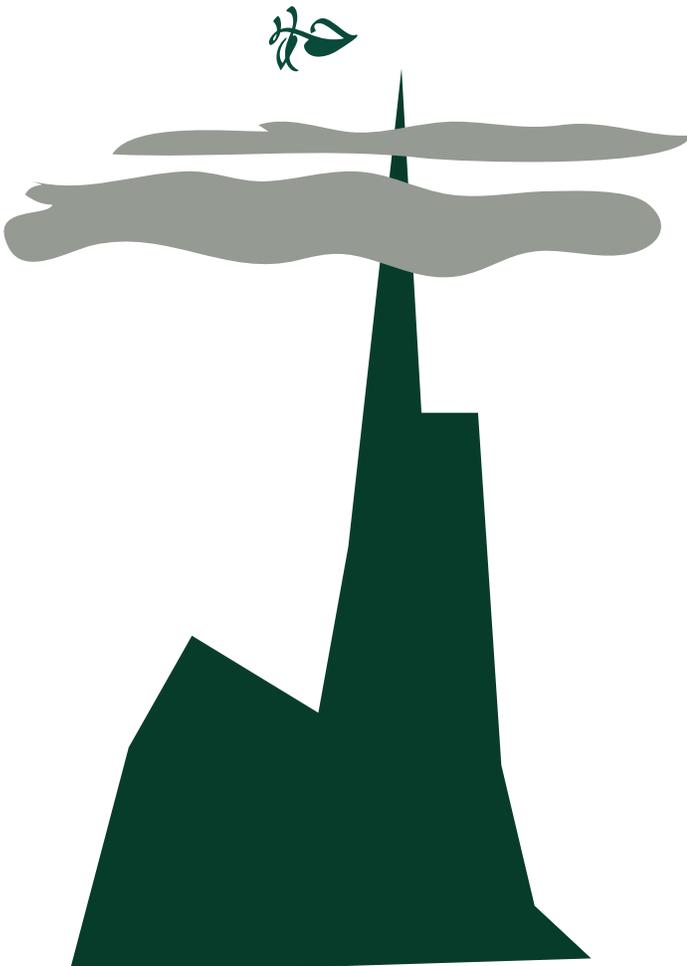
The fantasy genre is a type of fiction. Fantasy stories cannot happen in the real world—they are purely imaginary. Fantasy stories include make-believe animals, magic, monsters and other things that do not exist in our reality. They can take place in the past, present or future, but usually do not take place on Earth (at least not the Earth we are familiar with). Many beloved childhood series such as *Lord of the Rings* are great examples of the fantasy genre. Can you think of any others?

C.S. Lewis: Lewis was a British fantasy writer. He was a contemporary and friend of Tolkien and wrote the *Chronicles of Narnia* series.

"But what does it all mean?" asked Susan when they were somewhat calmer.

"It means," said Aslan, "that though the Witch knew the Deep Magic, there is a magic deeper still which she did not know. Her knowledge goes back only to the dawn of Time. But if she could have looked a little further back, into the stillness and the darkness before Time dawned, she would have read there a different incantation. She would have known that when a willing victim who had committed no treachery was killed in a traitor's stead, the Table would crack and Death itself would start working backwards."

-*The Lion, The Witch, and the Wardrobe* (1950)



Name some of the words and elements of this quote that tell you it is fantasy.

FANTASY



J.R.R. Tolkein: Tolkein was a British fantasy writer and scholar like his friend C.S. Lewis. He is probably the most famous fantasy writer in the world. He wrote the *Lord of the Rings* series.

“The stars were out in a dark sky above the trees. He thought of the jewels of the dwarves shining in dark caverns. Suddenly in the wood beyond The Water a flame leapt up - probably somebody lighting a wood-fire - and he thought of plundering dragons settling on his quiet Hill and kindling it all to flames. He shuddered; and very quickly he was plain Mr Bag-gins of Bag-End, Under-Hill, again.”

-*The Hobbit* (1937)



What elements of this quote tell you it is fantasy?

H.P. Lovecraft: Lovecraft's books covered many genres. His otherworldly themes were partly inspired by Edgar Allen Poe, and like him, his books greatly advanced all the genres they covered.

“the marble cloud-city of Serannian, that lies in ethereal space beyond where the sea meets the sky... Shining still is the bronze of the great gates, nor are the onyx pavements ever worn or broken...”

- *The Dream-Quest of Unknown Kadath* (1927)

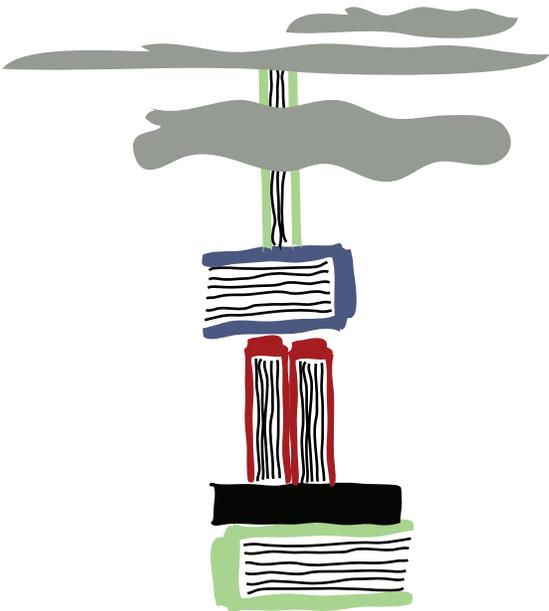


How do we know that this quote is from a fantasy story?

FANTASY



All fantasy stories have mythical characters that we can't find in real life: trolls, wizards, flying bear-dogs ... you name it! Now it's time to come up with your own character for your fantasy story. Is it an animal? Or is it more like a human with special powers and physical features? Draw a picture of your character in the box to the right, and write a paragraph describing who he/she/it is, what they do and where they live.



Name _____

Date _____

Feelings Word Search

In each moment we may feel a variety of feelings, or emotions. Feelings come and go, and talking and writing about them can help us to see that feelings and emotions are visitors, like passing clouds on a sunny day. From the list below, circle ten descriptive emotion words to write about.

Emotions

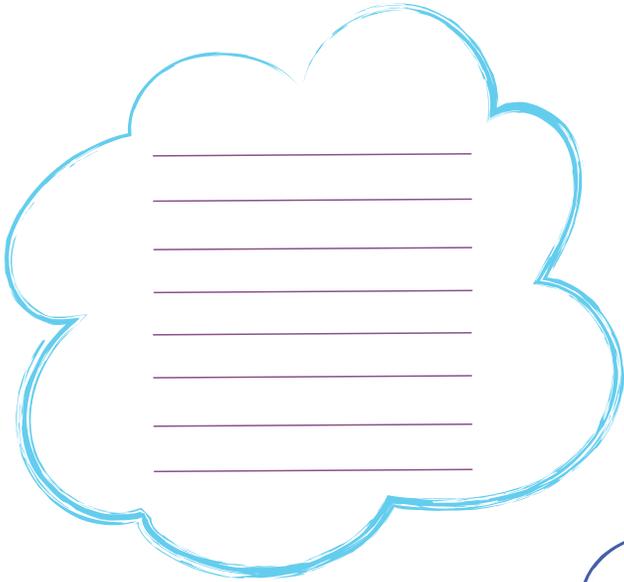
amazed	disgusted	insecure	proud
angry	energetic	irritated	relieved
annoyed	eager	jealous	sad
anxious	embarrassed	joyful	satisfied
ashamed	envious	lost	scared
bored	excited	lonely	self-conscious
comfortable	furious	loving	silly
confused	foolish	miserable	terrified
content	frustrated	motivated	uncomfortable
determined	hopeful	overwhelmed	worried
depressed	hurt	peaceful	

Name _____

Date _____

Feelings Word Search

After choosing your words, write in the clouds below when you have felt this emotion. Explain to a family member or caring adult how you felt and where you felt the emotion in your body.



A cloud-shaped writing area with a blue outline and eight horizontal purple lines for writing.



A cloud-shaped writing area with a blue outline and eight horizontal purple lines for writing.



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A cloud-shaped writing area with a blue outline and eight horizontal purple lines for writing.

Name _____

Date _____

Feelings

After choosing your words, write in the clouds below when you have felt this emotion. Explain to a family member or caring adult how you felt and where you felt the emotion in your body.



A cloud-shaped writing area with a light blue outline and seven horizontal purple lines inside for writing.



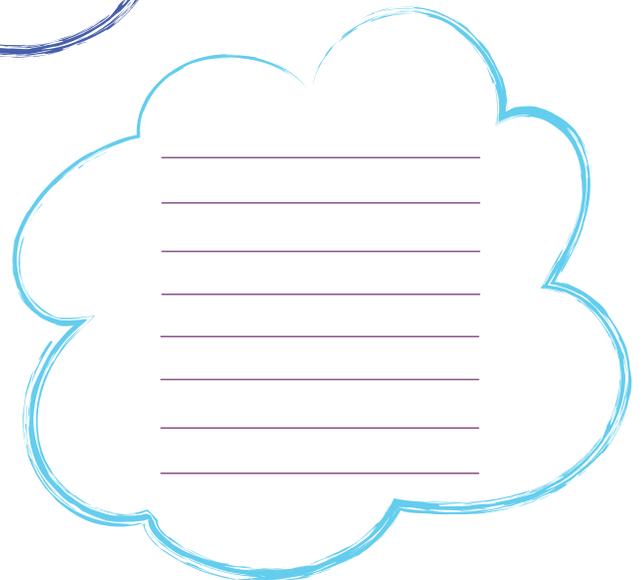
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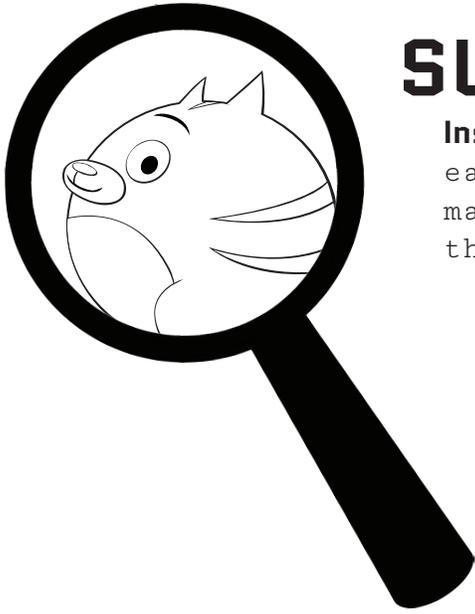
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A cloud-shaped writing area with a light blue outline and seven horizontal purple lines inside for writing.



SUFFIX CLUES

Instructions: Use the chart and the clues for each word to match the suffix. Write the correct matching suffix on the first line, then spell the word with the suffix.

Suffix	Meaning
-able, -ible	Is or can be done
-an	Relating to
-ship	State or quality of
-ist	One who does a specific action
-ism	Act/belief or practice of
-ance, -ence	State or quality of

EXAMPLE:

If someone is a **leader**, they demonstrate this word. 🔍 Add a suffix to create a new word.

Suffix: **-ship** New Word: **leadership**

1. This fly **annoys** me. 🔍 Create a new word by adding a suffix to the verb.

Suffix: _____ New Word: _____

2. A writer wants to add a suffix to the word **comfort**. 🔍 What suffix should they use?

Suffix: _____ New Word: _____

3. May is about to **tour** Asia. 🔍 Add a suffix to the word tour to describe May.

Suffix: _____ New Word: _____

4. Leilani is from **Hawaii**. 🔍 Add a suffix to the word Hawaii to describe Leilani.

Suffix: _____ New Word: _____

5. The team is filled with **champions**. 🔍 Add a suffix to champion to create a new word.

Suffix: _____ New Word: _____

Name: _____

Date: _____

Census Data: Working for a Living 2



A census is a count of the number of people in a country, city, or town. The United States Census Bureau is responsible for collecting data on American citizens and the economy. The Census Bureau conducts a census every ten year. It conducts annual surveys during those ten-year periods.



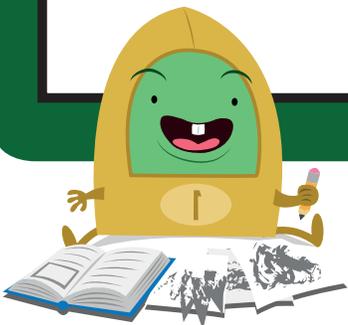
Directions: Round the numbers in the table to the nearest hundred thousand.

Working for a Living 2017		
<i>Selected jobs with more than one million full-time, year-round workers</i>		
Female Workers		Rounded Numbers
Customer service representatives	1,196,513	
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Janitors and building cleaners	1,188,748	
Retail salespersons	1,039,912	
Drivers/sales workers and truck drivers	2,585,286	
Construction laborers	1,242,848	

How does rounding the numbers change the information?

Day 3

Independent Reading Activity	Make a Mind Map for your book or for a character. Put your book's title (or character name) in the middle and use words and images to tell as much detail as you can. Don't forget to give examples!
Reading	Read about the fictional mystery genre along with some excerpts from classic writers. Then write a mystery story from your point of view about your search for a hamster and the culprit behind the disappearance.
Writing	Create a perseverance journal to set and monitor your personal and academic goals, and to keep track of motivational quotes. These quotes can help you progress through difficulties. (Continue working on your best self timeline.)
Grammar Practice	Work with a family member or search online to generate a list of common suffixes. Use previous worksheets for more inspiration.
Math	Evaluate a bar graph with numbers represented as decimals and compare the data between female and male workers. Then answer questions using your decimal addition, place value, and rounding skills.

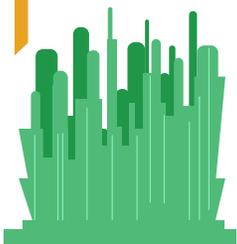
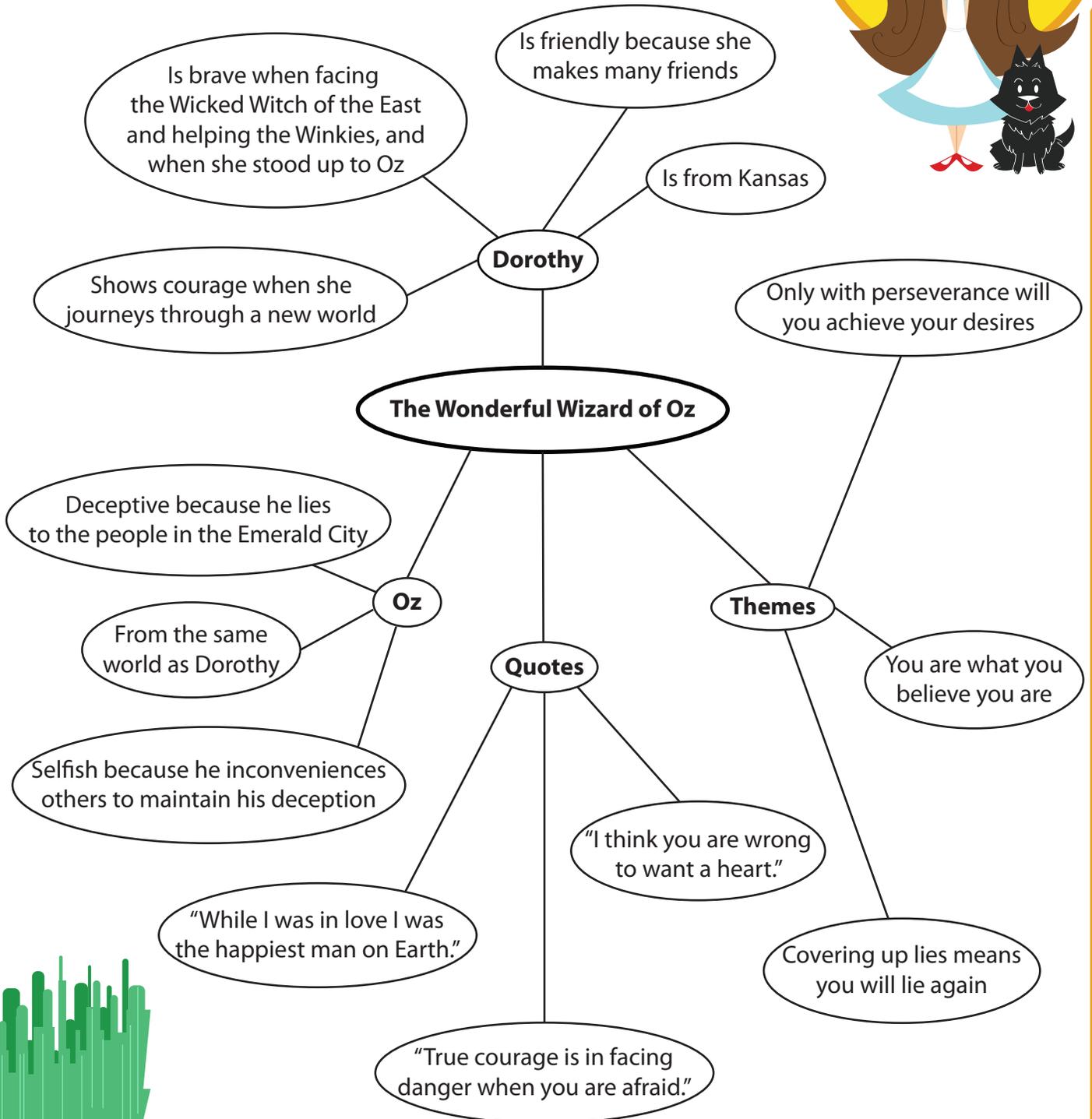


Book or Character Mind Map



Directions: Look at this example of a book mind map. Then fill in your own mind map about a character or book you read.

The Wonderful Wizard of Oz

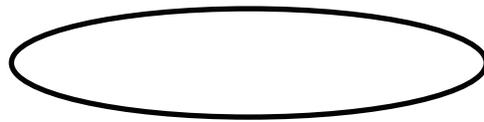


Name _____

Date _____

Book or Character Mind Map

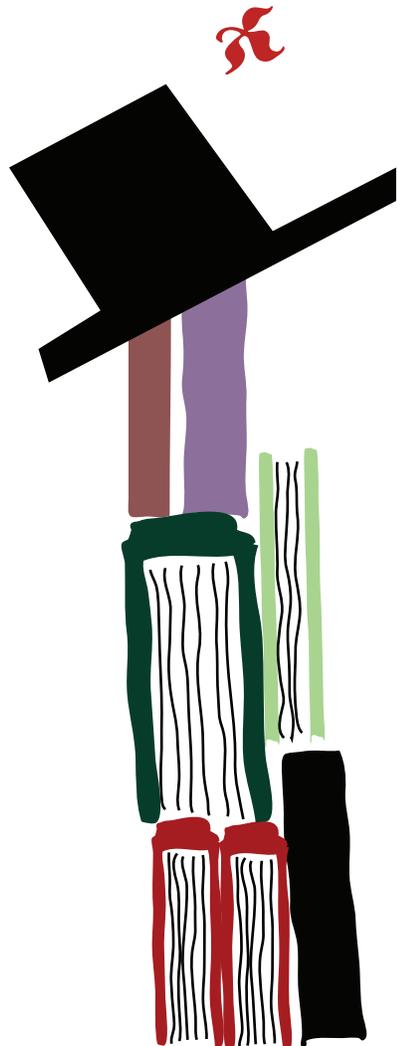
Directions: Create your own mind map. Write the book title or character name in the oval, then draw your own circles as you create your mind map using words or drawings. For example, you can write about conflicts, character traits, settings, or things you loved about the book or character.



LEARNING GENRES

CRIME/MYSTERY

The mystery genre is a type of fiction. People have many different words to describe this genre: “whodunit”, “hard-boiled”, “detective story”, etc. All mystery stories focus on a crime that was committed or mysterious event that happened. Many of these stories have twists and turns to keep us on our toes as we follow the detective on his journey to discover the culprit. The fun part about mystery or crime stories is that they are usually believable; they could happen in real life, and some of them are even based on true stories!



Ian Fleming: Fleming created the famous James Bond character, an adventurous, fast-living spy with the British secret intelligence.

“But I am greedy for life. I do too much of everything all the time. Suddenly one day my heart will fail. The Iron Crab will get me as it got my father. But I am not afraid of The Crab. At least I shall have died from an honourable disease. Perhaps they will put that on my tombstone. 'This Man Died from Living Too Much'.”

-*From Russia With Love* (1957)



Name some of the words and elements of this quote that tell you it is crime or mystery fiction.

CRIME/MYSTERY



Sir Arthur Conan Doyle: Doyle was an English adventure and mystery writer from the early 1900s. He is most famous as the creator of Sherlock Holmes, the detective genius.

“He said that there were no traces upon the ground round the body. He did not observe any. but I did - some little distance off, but fresh and clear”

"Footprints?"

"Footprints."

"A man's or a woman's?"

Dr. Mortimer looked strangely at us for an instant, and his voice sank almost to a whisper as he answered: "Mr Holmes, they were the footprints of a gigantic hound!"

-*Sherlock Holmes: The Hound of the Baskervilles* (1901)



Name some of the words and elements of this quote that tell you it is crime or mystery fiction.

Agatha Chrystie: Chrystie is one of the most important mystery writers in English literature. She invented the character Poirot, an eccentric and intelligent detective from Belgium.

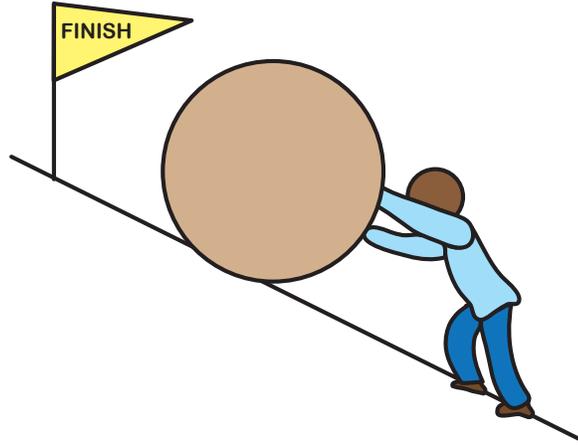
"Once I went professionally to an archaeological expedition--and I learnt something there. In the course of an excavation, when something comes up out of the ground, everything is cleared away very carefully all around it. You take away the loose earth, and you scrape here and there with a knife until finally your object is there, all alone, ready to be drawn and photographed with no extraneous matter confusing it. That is what I have been seeking to do--clear away the extraneous matter so that we can see the truth--the naked shining truth."

- *Death on the Nile* (1937)



Name some of the words and elements of this quote that tell you it is crime or mystery fiction.

Perseverance Journal



Setting and monitoring goals can support perseverance and motivation! Create a perseverance journal to set and monitor your goals, and keep track of motivational quotes.

Materials: markers, magazines to clip (or printed images), scissors, composition book, perseverance quotes

Directions:

1. Cut out inspirational images and words from magazines and paste them on the front of your perseverance journal.
2. Write “Perseverance Journal” and your name on your front cover.
3. Cut out the two tables below and paste them on the first and second page of your journal.
4. Write your goals and the steps to reach your goal on each pasted page.
5. Title the last page of your journal: “Quotes on Perseverance, Motivation, and Grit”
6. Research and write or paste at least three inspirational quotes (some are already included below to get your started).
7. Return to your journal as often as you would like and continue to add to your inspirational quotes.
8. Check in with your goals and steps to accomplish goals at least once a week and remember to persevere, even amidst challenges!

Name _____

Date _____



Academic Goals

My goal is to _____ by _____

Steps to reach goal:

- _____
- _____
- _____
- _____
- _____



Personal Goals

My goal is to _____ by _____

Steps to reach goal:

- _____
- _____
- _____
- _____
- _____

Perseverance Journal

Take some time to scan this list of quotes. Choose a few that you connect with and reflect more deeply on what the quotes mean to you. Underline words or phrases that touch your heart and feel important to you. Share why those quotes have meaning for you with a caring adult.

Perseverance Quotes:

“Of all that is good, sublimity is supreme. Succeeding is the coming together of all that is beautiful. Furtherance is the agreement of all that is just. Perseverance is the foundation of all actions.” – Lao Tzu

“Just remember, you can do anything you set your mind to, but it takes action, perseverance, and facing your fears.” – Gillian Anderson

“Grit is that 'extra something' that separates the most successful people from the rest. It's the passion, perseverance, and stamina that we must channel in order to stick with our dreams until they become a reality.” – Travis Bradberry

“The key to my perseverance was absolutely loving the craft of acting. I just figured that if I kept doing it, at the very least I would get better at acting. Even if I didn't become a tremendous success, as long as I knew I was improving and getting better, to me, that was success.” – Tamara Taylor

“Personally, I've learned about perseverance: when you hear the word 'No,' and when you hear rejection, that it's not always final. And that timing is everything, and you have to stay the course and just keep working hard and know that, when your time comes, that it will be sweet and that it will be the perfect time.” – Angela Robinson

“The three ordinary things that we often don't pay enough attention to, but which I believe are the drivers of all success, are hard work, perseverance, and basic honesty.” – Azim Premji

“It's perseverance that's the key. It's persevering for long enough to achieve your potential.” – Lynn Davies

“You aren't going to find anybody that's going to be successful without making a sacrifice and without perseverance.” – Lou Holtz

Common Suffixes

and Their Meanings

Working with classmates, put your brains together to generate examples of words that can be created using the suffix provided. You may use your lists of prefixes and roots from the previous activities to form new words.

Noun Suffixes		
Suffixes	Meaning	Example
-acy	state or quality	privacy,
-al	act or process of	refusal,
-ance, -ence	state or quality of	maintenance,
-dom	place or state of being	freedom,
-er, -or	one who	trainer,
-ism	doctrine, belief	communism,
-ist	one who	chemist,

Common Suffixes

and Their Meanings

Suffixes	Meaning	Example
-ity, -ty	quality of	activity,
-ment	condition of	argument,
-ness	state of being	heaviness,
-ship	position held	fellowship,
-sion, -tion	state of being	transition,

Verb Suffixes (These suffixes change other parts of speech into verbs)

Suffixes	Meaning	Example
-ate	become	eradicate,
-en	become	enlighten,

Common Suffixes

and Their Meanings

Suffixes	Meaning	Example
-ify, -fy	make or become	terrify,
-ize, -ise	become	civilize,

Adjective Suffixes (These suffixes turn other parts of speech into adjectives)		
Suffixes	Meaning	Example
-able, -ible	capable of being	edible,
-al	pertaining to	regional,
-esque	reminiscent of	picturesque,
-ful	notable for	fanciful,
-ic, -ical	pertaining to	musical,

Common Prefixes

and Their Meanings

Suffixes	Meaning	Example
-ious, -ous	characterized by	nutritious,
-ish	having the quality of	babyish,
-ive	having the nature of	creative,
-less	without	endless,
-y	characterized by	sleazy,

Census Data: Working for a Living 3

A census is a count of the number of people in a country, city, or town. The United States Census Bureau is responsible for collecting data on American citizens and the economy. The Census Bureau conducts a census every ten years and annual surveys in between the census.



Directions: Consider the data in the graph. Then answer questions about the data.

Working for a Living 2017

Selected jobs with more than one million full-time, year round workers

Female Workers

Registered nurses	about 2.0 million
Secretaries and assistants	about 2.0 million
Elementary and middle school teachers	about 2.0 million
Customer service representatives	about 1.2 million
Accountants and auditors	about 1 million

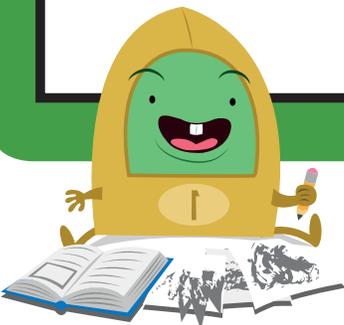
Male Workers

Drivers/sales workers and truck drivers	about 2.6 million
First-line supervisors of retail sales workers	about 1.5 million
Construction laborers	about 1.2 million
Janitors and building cleaners	about 1.2 million
Retail salespersons	about 1 million

1. What does the graph represent?

Day 4

Independent Reading Activity	Choose a book that has not already been made into a movie. Use the storyboard to plot out a movie trailer for your book.
Reading	Learn all about the biography genre, including autobiography and journalism, and read some classic excerpts from its famous authors.
Writing	Reflect on a time when you were in an argument or had a conflict with someone. Then answer questions about how seeing things from another angle can help you handle conflict in the future. (Continue working on your best self timeline.)
Grammar Practice	In this worksheet you will practice with prefixes by searching for and circling words that contain prefixes.
Math	Multiply two and three-digit numbers to unlock the code and learn a fun ninja fact.



Name _____

Date _____

Storyboard



Draw pictures and write about what you draw in this graphic organizer.

BIOGRAPHY/AUTOBIOGRAPHY



Thomas Jefferson: Jefferson was one of the most important figures in the early history of the U.S. His autobiography is a great resource for learning what America was like when it was young.

“At the age of 77, I begin to make some memoranda and state some recollections of dates and facts concerning myself, for my own ready reference and for the information of my family.

The tradition in my father's family was that their ancestor came to this country from Wales, and from near the mountain of Snowdon, the highest in Great Britain.”

-*Autobiography* (1821)



How can we tell from this introductory paragraph that we are reading an autobiography?

Alexander von Humboldt: Humboldt was a German scientist and adventurer in the 1800s. Even though few people talk about him today, he made many great discoveries and his life story is a fascinating tale that takes place all over the globe.

“A biography of Alexander Von Humboldt, which shall contain a full and conscientious account of his life and labors, written in a style sufficiently clear and untechnical to meet popular tastes, has long been a necessity in our literature. Those biographies which are already in existence do not possess this character: they are rather chronicles of his achievements in the various departments of Natural Science, than stories of a life almost unexampled for its wealth of experiences, its labors, and successes.”

- *The Life Travels and Books of Alexander von Humboldt* (1859) by R.H. Stoddard



What elements of this quote suggest it is a biography? How is this different from an autobiography?

Name _____

Date _____

Seeing Things From Another Angle

Reflect on a time when you were in an argument or had a conflict with someone, who you then made amends with in your life.

What happened?

How do you think the other person felt?

How did you feel?

How were things resolved, if they were?

How could you use conflict resolution skills the next time there is a conflict?

With your parent, make an agreement about how you can handle conflict in your home.

Circle the Prefixes!

Name _____

Date _____

A **prefix** is attached at the beginning of a word and changes that word's original definition.

ANTI **GRAVITY**
prefix *root word*

prefix	meaning	prefix	meaning
un	not	semi	half
dis	the opposite of	fore	before
re	again	mid	middle
anti	against	mis	wrong
de	the opposite of	in	opposite
inter	between	pre	before

DIRECTIONS

Read the sentences below. Find the words that contain prefixes. Circle each prefix and write its definition on the line below each sentence. Use the above chart and a dictionary as reference.

1. Johnny checked his phone midway through conversation.

2. Garret's dog is very disobedient if she doesn't take regular walks.

3. Jennifer is a professional motorist and enjoys driving a variety of semi-trailer trucks.

4. Before Jessie left the house, she deactivated her personal computer.

5. Ginny defrosted the frozen turkey before preparing it for dinner.

NINJA WORD HUNT

Learn the ways of the ninja! Uncover the mysteries of the ninja by encoding the answer to the question below. Solve the following multiplication equations then match each answer to its own letter.

What's the most common ninja weapon?

A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

Example: $19 \times 164 = \begin{array}{r} 3 \\ 1 \end{array} \begin{array}{r} 1 \\ 2 \end{array} \begin{array}{r} 1 \\ 3 \end{array} \begin{array}{r} 6 \\ 3 \end{array} \rightarrow \begin{array}{r} C \\ 1 \end{array} \begin{array}{r} A \\ 2 \end{array} \begin{array}{r} P \\ 3 \end{array}$

$$52 \times 4 = \begin{array}{r} \underline{\quad} \\ 1 \end{array} \begin{array}{r} \underline{\quad} \\ 2 \end{array}$$

$$121 \times 15 = \begin{array}{r} \underline{\quad} \\ 3 \end{array} \begin{array}{r} \underline{\quad} \\ 4 \end{array}$$

$$23 \times 1 = \begin{array}{r} \underline{\quad} \\ 5 \end{array}$$

$$457 \times 2 = \begin{array}{r} \underline{\quad} \\ 6 \end{array} \begin{array}{r} \underline{\quad} \\ 7 \end{array}$$

$$353 \times 2 + 13 = \begin{array}{r} \underline{\quad} \\ 8 \end{array} \begin{array}{r} \underline{\quad} \\ 9 \end{array}$$

$$67 \times 3 = \begin{array}{r} \underline{\quad} \\ 10 \end{array} \begin{array}{r} \underline{\quad} \\ 11 \end{array}$$

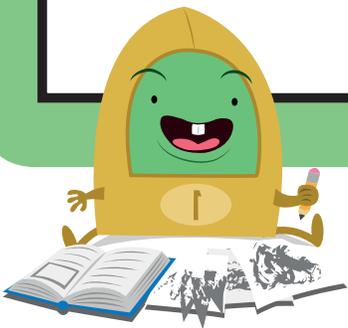
$$450 \times 4 + 19 = \begin{array}{r} \underline{\quad} \\ 12 \end{array} \begin{array}{r} \underline{\quad} \\ 13 \end{array}$$

Ninjas always carry:

1 2 3 4 5 6 7 8 9 10 11 12 13

Day 5

Independent Reading Activity	Go through your book and make a found poem with words from your book. Choose phrases and pieces of dialogue that are unique to your book and put them together to create a poem.
Reading	Get to know memoirs, which are different from an autobiography. Read some memoir excerpts from Gertrude Stein, Winston Churchill, and Henry David Thoreau. Then write your own memoir!
Writing	Reflect on role models who have persevered despite difficulties. Then create a slideshow or poster that defines and illustrates perseverance. (Continue working on your best self timeline.)
Grammar Practice	Continue your practice with prefixes! Sort out similar words, deconstruct words to locate the prefixes, and find the meaning of each word.
Math	Practice your multiplication skills while becoming a code breaker! Multiply three-digit numbers to break the code.

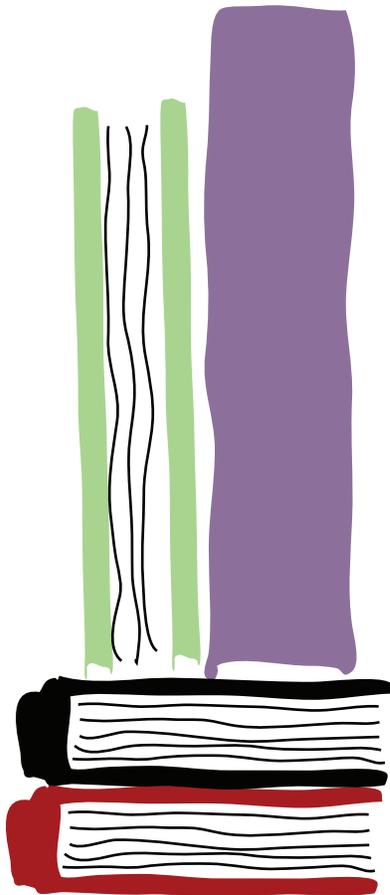


LEARNING GENRES MEMOIR

A memoir (mem-wahr) is a type of nonfiction, meaning that it is a true story. It is usually a story that the author writes about his or her self, like an *autobiography*, except that a memoir only focuses on a specific event or time period in one's life. Not all memoirs are autobiographical; some are written about other people's lives.



Autobiography: A true report of a person's life, written by that person



Gertrude Stein: Stein is most well known for being friends with all the great artists in Paris in her time, such as Ernest Hemmingway, F. Scott Fitzgerald and Picasso. But she was also a very talented artist, writer and critic.

“Paris, France is exciting and peaceful. I was only four years old when I was first in Paris and talked French there and was photographed there and went to school there, and ate soup for early breakfast and had leg of mutton and spinach for lunch, I always liked spinach, and a black cat jumped on my mother's back. That was more exciting than peaceful.”

-Paris, France: Personal Recollections (1940)



Name some of the words and elements of this quote that tell you it is a memoir.

MEMOIR



Winston Churchill: Churchill is most famous for leading Great Britain during WWII. After the war though he wrote many memoirs, essays and books about his experiences.

“I have followed, as in previous volumes, as far as I am able, the method of Defoe’s *Memoirs of a Cavalier*, in which the author hangs the chronicle and discussion of great military and political events upon the thread of the personal experiences of an individual. I am perhaps the only man who has passed through both the two supreme cataclysms of recorded history [WWI and WWII] in high cabinet office.”

-Memoirs of the Second World War (1959)



Name some of the words and elements of this quote that tell you it is a memoir.

Henry David Thoreau: Thoreau's writings cover many genres at the same time. They are nonfiction, often philosophy but are always written as a memoir. A memory of a certain time and place he experienced.

“Concord River is remarkable for the gentleness of its current, which is scarcely perceptible, and some have referred to its influence the proverbial moderation of the inhabitants of Concord, as exhibited in the Revolution, and on later occasions. It has been proposed, that the town should adopt for its coat of arms a field verdant, with the Concord circling nine times round. I have read that a descent of an eighth of an inch in a mile is sufficient to produce a flow. Our river has, probably, very near the smallest allowance. ...Compared with the other tributaries of the Merrimack, it appears to have been properly named Musketaquid, or Meadow River, by the Indians.”

- The Hound (1922)



How are Thoreau's descriptions different from an autobiography?

Perseverance in Challenging Times



1. Research and define “*perseverance*”:

2. Research or reflect on one person who has persevered (this could be someone you know, a famous person, or a historical figure).

Name of person who has persevered: _____

3. Answer the following questions about your chosen person:

- What challenges did this person face?

- How did they overcome these obstacles and persevere?

- How can you take what they have done and use these tools in your own life?

Create a slideshow or poster on “perseverance”

- Create a title slide or poster title related to perseverance.
- Design at least 4 slides or include 4 parts to your poster that share your understanding.
- Include the definition of perseverance.
- Include an inspirational quote.
- Describe your role model of perseverance (the person you listed above).
- Use your questions and answers above to illustrate perseverance.

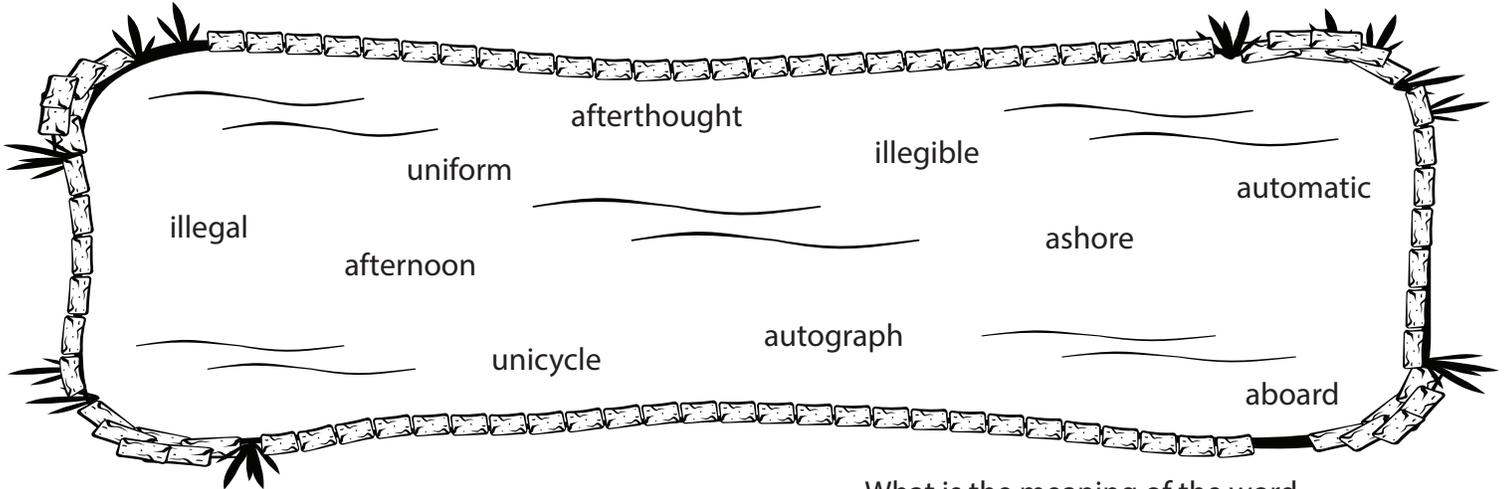
**Present your slideshow or poster to a friend or caring adult.
Remember to go back to your slideshow or hang up your poster as a reminder
to stay motivated and to persevere!**

Name: _____

Date: _____

Prefix Pond

Look at all of the words in the prefix pond. Sort out the words and write the words that go together. Underline the prefix in each word. Next, explain what each word means in the second column. Underline the part that shows the meaning of the prefix.



What is the meaning of the word, considering the prefix?

Example:	<u>un</u>icycle	A unicycle is like a bicycle, but only has <u>one</u> wheel.
Similar Word:	<u>un</u>iform	A uniform is <u>one</u> type of clothing for a group of people.

What is the meaning of the word, considering the prefix?

Word 1:	
Similar Word:	

What is the meaning of the word, considering the prefix?

Word 2:	
Similar Word:	

What is the meaning of the word, considering the prefix?

Word 3:	
Similar Word:	

SECRET CODE MATH

Hello! I'm Ninja Aki. I've secretly coded these multiplication problems. Decode the numbers using the chart below and solve.



0	1	2	3	4	5	6	7	8	9
🎯	△	⚡	Ω		♈	♊	△	✓	♏

CODE NUMBERS

$$\begin{array}{r} \times \\ \begin{array}{r} \text{⚡} \triangle \triangle \\ \triangle \quad || \quad \Omega \end{array} \\ \hline \Omega \triangle \text{🎯} \Omega \triangle \end{array}$$

REGULAR NUMBERS

$$\begin{array}{r} \times \\ \begin{array}{r} 217 \\ 143 \\ \hline 651 \\ + 868 \\ 217 \\ \hline 31031 \end{array} \end{array}$$

CODE NUMBERS

$$\begin{array}{r} \times \\ \begin{array}{r} \text{♊} \checkmark \triangle \\ \Omega \text{🎯} || \end{array} \\ \hline \end{array}$$

REGULAR NUMBERS

$$\begin{array}{r} \times \\ \hline \end{array}$$

CODE NUMBERS

$$\begin{array}{r} \times \\ \begin{array}{r} \Omega \text{⚡} \text{🎯} \\ \text{♊} \triangle \Omega \end{array} \\ \hline \end{array}$$

REGULAR NUMBERS

$$\begin{array}{r} \times \\ \hline \end{array}$$

CODE NUMBERS

$$\begin{array}{r} \times \\ \begin{array}{r} \triangle \text{♏} \triangle \\ \text{♈} \text{♊} \triangle \end{array} \\ \hline \end{array}$$

REGULAR NUMBERS

$$\begin{array}{r} \times \\ \hline \end{array}$$

CODE NUMBERS

$$\begin{array}{r} \times \\ \begin{array}{r} \checkmark || \text{⚡} \\ \triangle \text{♏} \text{♈} \end{array} \\ \hline \end{array}$$

REGULAR NUMBERS

$$\begin{array}{r} \times \\ \hline \end{array}$$

CODE NUMBERS

$$\begin{array}{r} \times \\ \begin{array}{r} \Omega \triangle \text{♏} \\ \triangle \text{🎯} \checkmark \end{array} \\ \hline \end{array}$$

REGULAR NUMBERS

$$\begin{array}{r} \times \\ \hline \end{array}$$

Social Studies

Alphabetize the United States

U.S. Expansion: Color by History

50 States Quiz



Name _____

Date _____

Orderly States

Put the states in alphabetical order.



1. Alabama 14. _____

2. _____ 15. _____

3. _____ 16. _____

4. _____ 17. _____

5. _____ 18. _____

6. _____ 19. _____

7. _____ 20. _____

8. _____ 21. _____

9. _____ 22. _____

10. _____ 23. _____

11. _____ 24. _____

12. _____ 25. _____

13. _____ 26. _____

27. _____

28. _____

29. _____

30. _____

31. _____

32. _____

33. _____

34. _____

35. _____

36. _____

37. _____

38. _____

39. _____

40. _____

41. _____

42. _____

43. _____

44. _____

45. _____

46. _____

47. _____

48. _____

49. _____

50. _____

Name _____

Date _____

Social
Studies
History

Color The States

Color the states according to the directions.



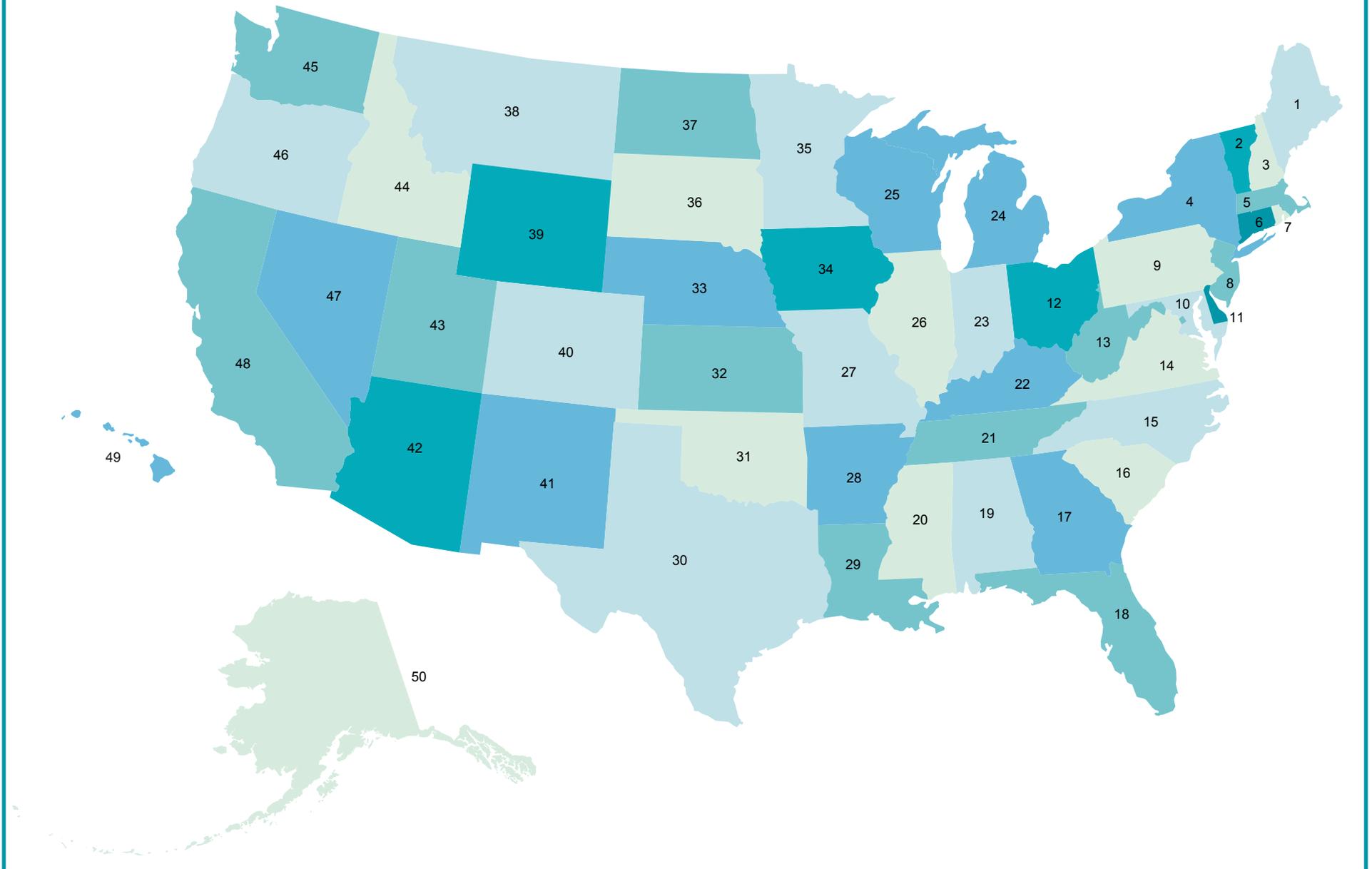
1. Color the 13 original colonies yellow.
2. Color the states that were added to the Union in the Louisiana Purchase blue.
3. Color the states that were once part of Spain or Mexico red.
4. Color the state that once belonged to Russia green.

Name _____

Date _____

United States Quiz

Write the name of each state next to the corresponding number on the next page.



Name _____

Date _____

United States Quiz

Write the name of each state next to the corresponding number.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

13. _____

14. _____

15. _____

16. _____

17. _____

18. _____

19. _____

20. _____

21. _____

22. _____

23. _____

24. _____

25. _____

26. _____

27. _____

28. _____

29. _____

30. _____

31. _____

32. _____

33. _____

34. _____

35. _____

36. _____

37. _____

38. _____

39. _____

40. _____

41. _____

42. _____

43. _____

44. _____

45. _____

46. _____

47. _____

48. _____

49. _____

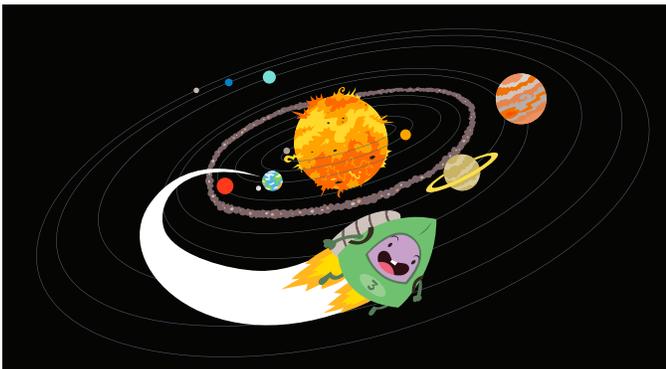
50. _____

Science

Fun Facts About the Sun

Solar and Lunar Eclipses

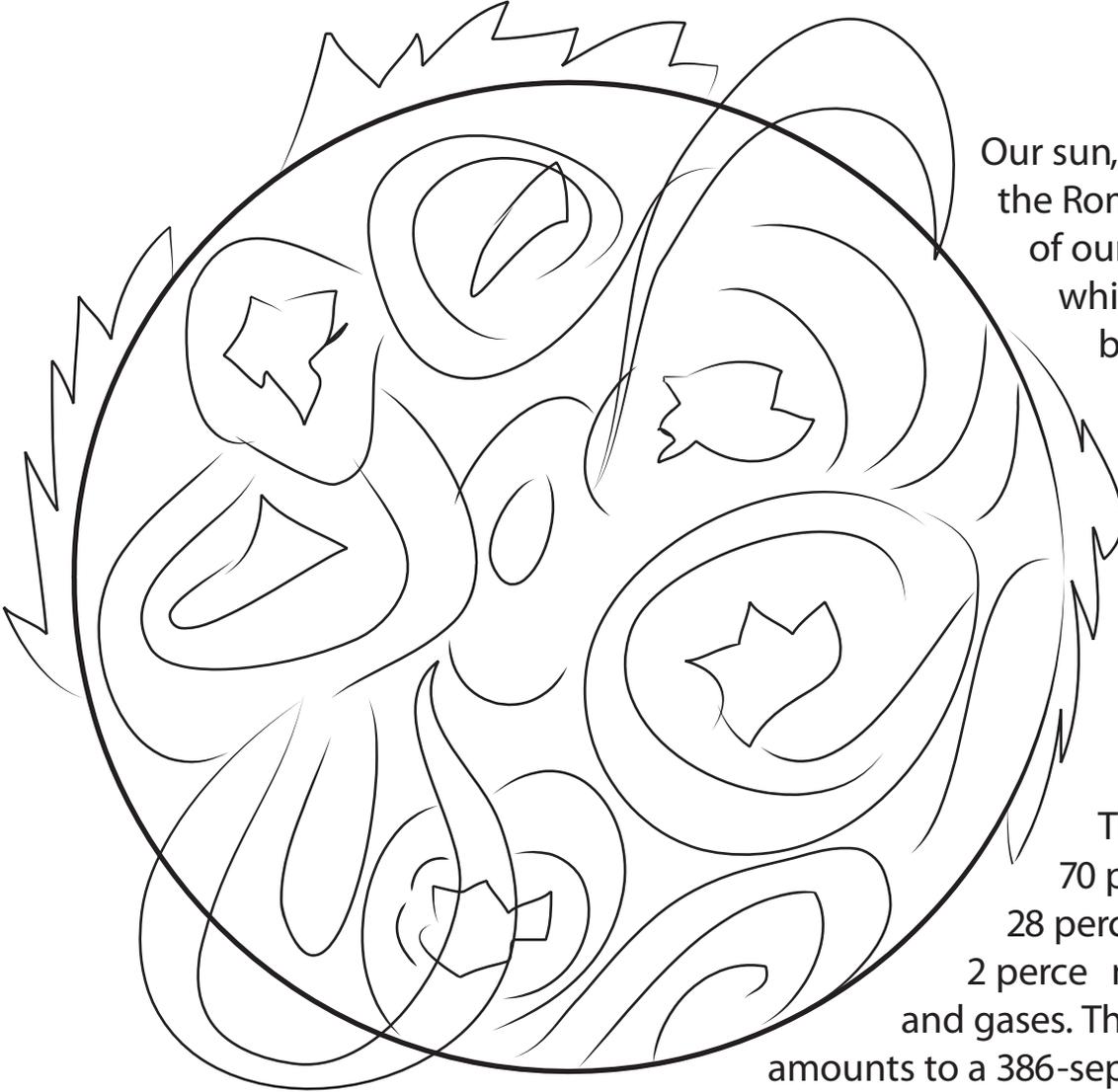
Identifying the Moon's Phases





The Solar System

The Sun



Our sun, named "Sol" by the Romans, is the center of our solar system, which was discovered by Nicolaus Copernicus in 1510–1512.

It is one of many billions of stars in the Milky Way . However, it is the only star that has been found to sustain and develop life on a planet, Earth.

The sun is made of 70 percent hydrogen, 28 percent helium and 2 percent other metals and gases. The power of the sun amounts to a 386-septillion (that's a billion billions!) megawatt light bulb. It takes light from the sun 8 minutes, 19 seconds to reach the Earth.

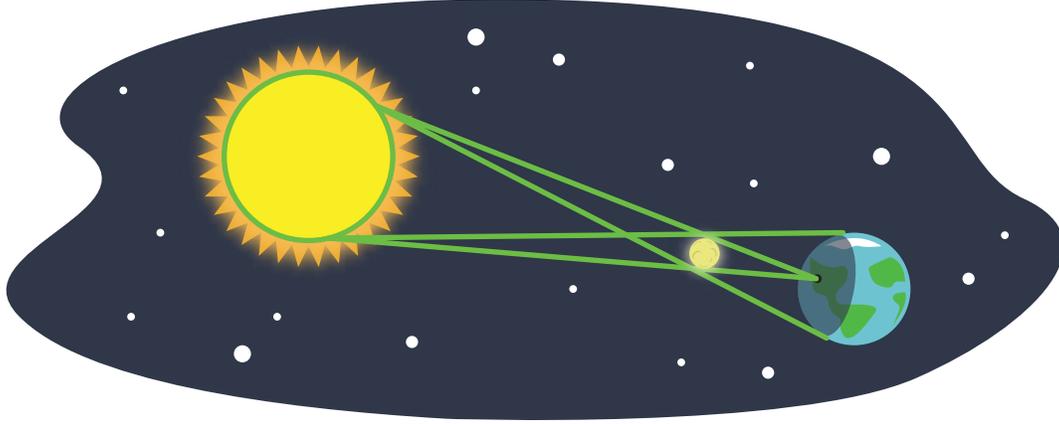
Planet Pop Quiz!

What is the closest star to solar system other than our sun? _____

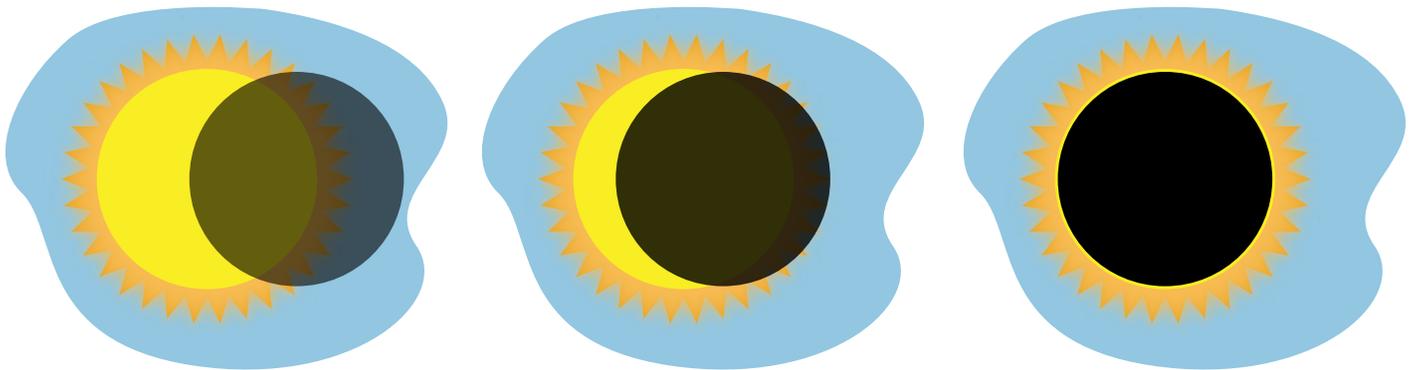
Hint: CTAURENI XIMPARO



Solar Eclipse vs. Lunar Eclipse



An *eclipse* is an obscuring of light caused by the passage of one object between a source of light and another object.



Solar Eclipse

A *solar eclipse* occurs when the moon moves between the sun and the earth, partially or fully blocking the sun. There are two to five solar eclipses every year.



Lunar Eclipse

A *lunar eclipse* occurs when the earth moves between the sun and the moon. There are at least two lunar eclipses every year.

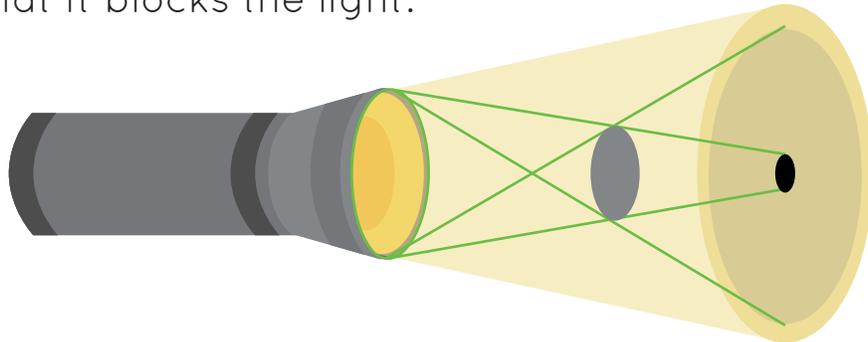
Reading Comprehension

Think About It!

During a solar eclipse the shadow of the moon covers up the sun. Do you think that when it happens the whole earth will be in darkness? Why or why not?

Try This!

Demonstrate what's happening during a solar eclipse on a smaller scale. All you need is a flashlight, a quarter and a partner. Aim the flashlight at your partner's face. Then have your partner hold up the quarter so that it blocks the light.



What happened? What do the different items represent? Which one is the sun? Which one is the moon? Which one is the earth?

Identifying the Moon's Phases



Have you ever wondered why the moon changes every night? Since the moon orbits the Earth, the moon's position changes between the Earth and the sun. These movements change how much of the sun's light reflects off of the moon, which affects how much of the moon we can see each night.

Directions: Read each caption and follow the instructions of how to illustrate that moon phase.

Fun Facts

- There are eight moon phases.
- **Waxing** means growing.
- **Waning** means decreasing in size.
- It takes the moon about a month to go through all of the phases.



2. Waxing Crescent

The moon is becoming visible at night, but we can only see a small piece of it. Draw a tiny crescent shape on the right, and shade the rest.



1. New Moon

The moon is between the Earth and sun. We can't see it at night. Shade the entire moon.



8. Waning Crescent

The moon appears as a small crescent shape again. Draw a tiny crescent shape on the left, then shade the rest.



3. First Quarter

The moon is 1/4 of the way around the Earth, and half of the moon is visible. Shade the left half.



7. Last Quarter

We see half of the moon again. Shade in the right half.



4. Waxing Gibbous

The moon appears almost full. Draw a crescent on the left and shade it in.



5. Full Moon

The Earth is between the moon and sun, and it is not blocking any light. The moon looks like it is glowing. Leave the moon blank.



6. Waning Gibbous

The moon begins shrinking and we can see all but a small sliver. Draw a crescent on the right and shade it in.

Optional

Science Project

What Causes the Phases of the Moon?

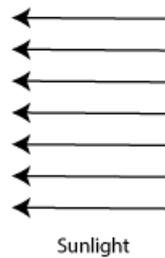
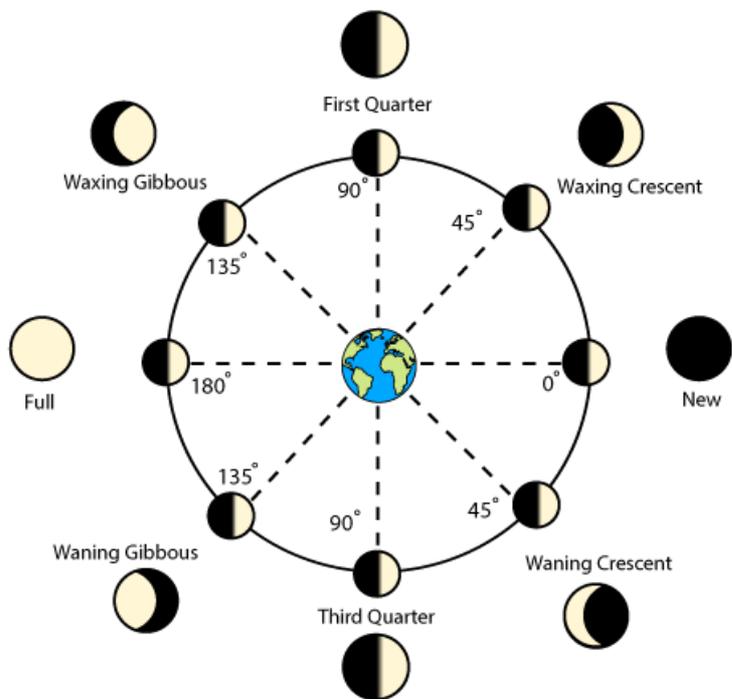
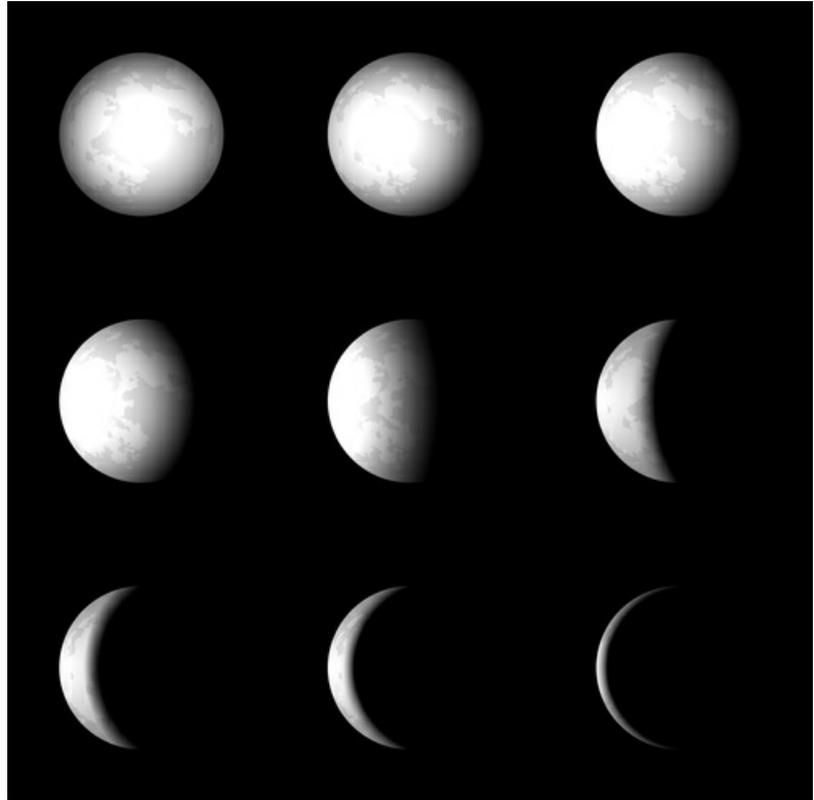


What Causes the Phases of the Moon?

It's fascinating to watch how the moon changes over a month. For a couple days, it is a full bright circle. Then, it begins to shrink, until only a tiny crescent remains. Then, it disappears all together. Then, it appears again, growing a little bigger each night, until it is full again. What's going on?

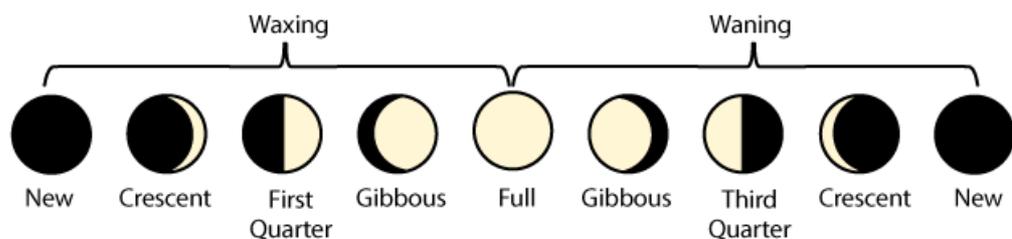
First of all, the changes in the amount of the moon's surface that is lit up over the course of a month are called **phases**. The next thing to know is that the light we see coming from the moon isn't moonlight at all, it is sunlight. The moon does not emit any light itself. The Sun's light is reflected from the surface of the Moon to us. Because the positions of the Earth, Moon and Sun vary throughout the course of the month, the amount of the moon's surface that we can see changes a little bit every night.

When the surface of the side of the moon facing Earth is completely illuminated, we see a **full moon**. When none of the surface is illuminated and we can't see the moon at all, the phase is a **new moon**. The phases when half the side of the moon facing Earth is lit up are called the **first and third quarters**. When the visible moon seems to be getting bigger, we say it is **waxing**, when the visible lighted surface seems to be getting smaller, we say the moon is **waning**. When less than half of the visible moon is lit, it's called a **crescent**, and when it's more than half, it's called a **gibbous**.



The phase of the moon we see depends on where the Earth is relative to the Moon and Sun. When the Moon is between the Earth and Sun, the surface of the moon that is lit up is not facing us, so we can't see the moon at all. This is the new moon. When the Earth is between the Moon and Sun, the Sun's light bounces off the surface of the moon, and the moon is completely lit up as seen from earth. This is the full moon. When the Moon is between those two positions, we see the first and third quarter.

What Causes the Phases of the Moon? (Continued)



Astronomers have observed the phases of the moon for thousands of years and have found that it takes $29\frac{1}{2}$ days for the moon to go through its entire phase cycle. This is called a **lunar month**. That means that the months on the calendar we use don't exactly match the phases of the Moon. Have you ever heard the phrase "once in a **blue moon**"? You might remember that the phrase means an event that doesn't happen very often, like cleaning your room without being asked. A blue moon occurs when there is a second full moon during the same month. For example, there could be a full moon on October 2nd and another on October 31st, just in time for Halloween. A blue moon occurs every $2\frac{3}{4}$ years.

A three-dimensional model can help clarify this complex topic.

Problem: How do the positions of the Sun, and Moon determine Moon phases?

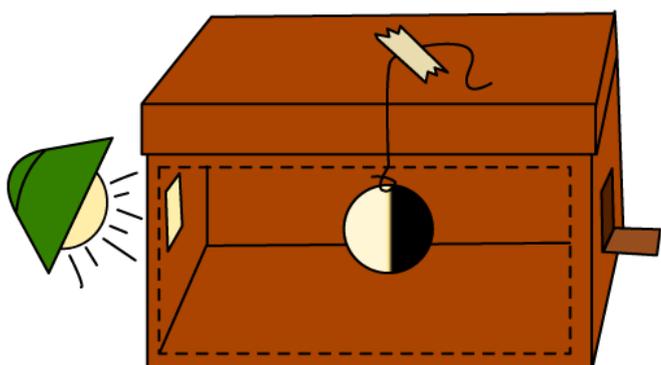
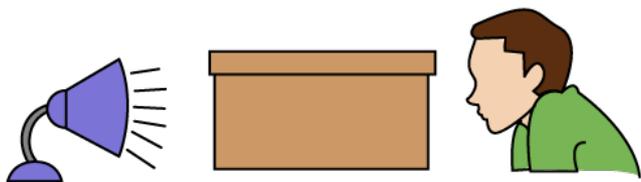
Materials

- Cardboard box, about 20 cm x 25 cm x 29 cm
- Ruler
- Pencil
- Black marker
- Knife
- 3-inch Styrofoam ball
- Large paper clip
- 16-inch piece of string or yarn
- Desk lamp or large flashlight
- Tape
- Dark room

Procedure

1. In the middle of a shorter side of the box, draw a 5-cm (2-inch) square. See diagram 3 (which shows the experimental set-up).
2. Have a grown-up help you cut out the square.
3. Above this opening use the marker write "Sun/Full Moon." This is where you will always place the light.
4. In the middle of the other shorter side of the box, make another square of the same size, but this time, cut only three sides of the square. Leave the bottom of the square uncut, so you can close it like a door. Above this opening, write "New Moon."
5. In the middle of the longer side of the box, make another door-hinge square.
6. Write "First Quarter" above this opening.
7. In the middle of the other longer side of the box, make another door-hinge square and write "Third Quarter" above it.
8. Push the paper clip about $\frac{3}{4}$ of the way into the Styrofoam ball.
9. Tie the string through the paper clip.
10. Tape the top of the box shut.
11. Use a pencil to make a tiny hole in top of box.
12. Position the light next to the "Sun" opening.
13. Place the Styrofoam ball inside the box and thread its string through the hole in the top of the box.
14. Position the lamp or flashlight about four inches away from the hole marked "Sun." The lamp's light should be pointed towards the hole.
15. Turn on the lamp and darken the room.
16. Position your eye near the opening on the other side of the box, holding the string that is attached to the Styrofoam ball.
17. Make sure that the adjustable "doors" you made on the long sides of the box are closed.
18. Adjust the string until the Styrofoam ball is blocking the light coming from the lamp.
19. Keep the Styrofoam ball in this position by securing with tape.

What Causes the Phases of the Moon? (Continued)



20. Observe the Styrofoam ball through the "New Moon" door. What do you see? Make a sketch in the table:

Phase of Moon	New Moon	First Quarter	Full Moon	Third Quarter
Amount of surface lit up				

21. Close the door below the "New Moon" label and open the door below the "First Quarter" label. Add this sketch to your data table.
22. Close the door below the "First Quarter" label. Peak through the "Sun/Full Moon" opening, being careful not to get too much light in your eyes. What do you notice? Make a sketch in your data table.
23. Open the door below the "Third Quarter" label. Look through the opening. Make your last sketch.

Results

When you looked at the new moon, none of the surface facing you should have been lit up. When you viewed the first quarter, about half of surface you viewed was lit up. When you viewed the surface of the Styrofoam ball through the full moon opening, the whole surface should have been lit up. When you viewed the third quarter, about half of the surface you viewed was lit up. You might notice it was the opposite half from the first quarter that was lit.

Why?

None of the Moon's surface was lit up when you viewed the new moon because the light was on its opposite side. All of the moon's surface was lit when you viewed it through the full moon slot because the light was on the same side. You saw half moons through the first and third quarter slots because the light was coming from a 90 degree angle. Take a look at the diagram:

Going Further

Check out [this cool project](#) on how the moon's phases affect Earth's tides!