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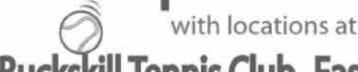
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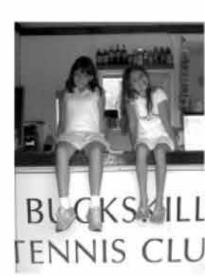
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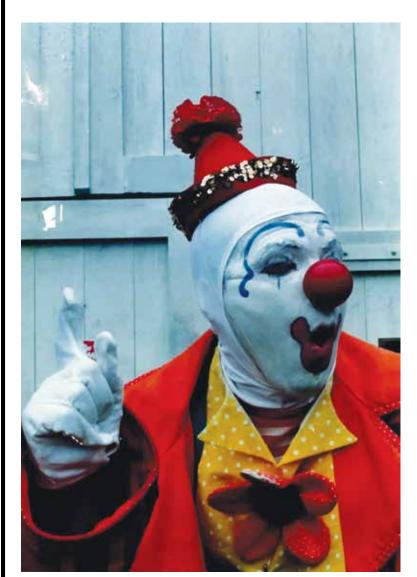
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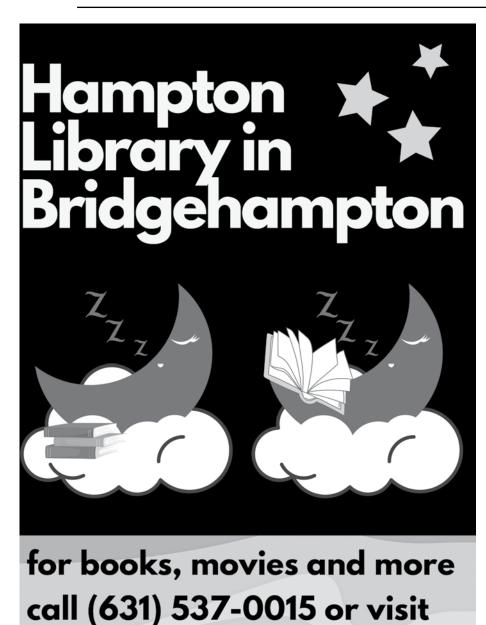
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# **Letter from the Editor**

Dear Readers,

For as long as humans have been curious about, and gazing at, the moon, people have dreamt of going to the moon. Neil Armstrong was the first American and the first human to do so. Now, NASA wants to go back. So do Russia and China, Maybe one day, humans can visit and land on Mars. The moon will always be a dream to explore for many years to come.

Sincerely, Eric Wald

### TABLE OF CONTENTS

America Returns to the Moon	7
History of the Moon	8
Will China Be Next to Land on the Moon?	9
Lessons Learned from My Piggy Bank	9
Dear Ms. Spiral Notebook	10
Starting as a Referee	14
The Sad Moon	15
Craters on the Moon	16
Legends of the Moon	16
"Goodnight Moon"; A Favorite Bedtime Story	<i>.</i> 17
The Moon's Cycles	18
Moon Jokes	19
Judaism and the Moon	20
The Moon's Vacation	21
Letter to Waldo	22
What's DIfferent?	22
Answers to the Reindeer Puzzles	22
More Moon Puzzles	23

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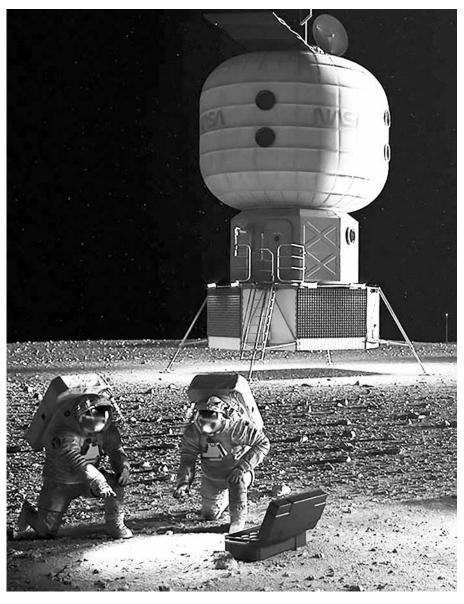
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# **America Returns to the Moon**

written by Jerry Cimisi image from NASA



An artist's concept showing NASA astronauts at the Artemis Base Camp on the moon with the Surface Habitat (SH). To give astronauts a place to live and work on the moon, the Artemis Base Camp concept includes a modern lunar cabin, a rover, and a mobile home.

he United States was the first country to put humans on the moon. July 20, 1969 was an historic date, when three crew members of Apollo 11 orbited the moon and two touched down on the moon in the lunar module (developed by Grumman right here on Long Island). Neil Armstrong was the first person in all of the history of Earth to step on to another world, uttering the now famous sentence, "That's one small step for man, one giant leap for mankind."

There were six Apollo landings on the moon. The last one was in December 1972. Americans were treated to their astronauts' "kangaroo-hopping" in the moon's light gravity (100 pounds on Earth is about 17 on the moon), and saw Alan Shephard, who had been the first American in space in 1961, hitting golf balls across the lunar surface. In all, the missions brought back 842 pounds of lunar soil and rocks for research.

But that was all 50 years ago, a full half a century; America—and no other country—has been back to the moon since. This is about the change—with America's lunar program called Artemis.

The Apollo program was named after the Greek god Apollo, the god of art, truth, sun and light. Artemis is the goddess of the hunt and the moon.

In fact, Artemis, the daughter of Zeus, was also twin sister to Apollo. In ancient times, those who worshipped Artemis were called Amazons, which means "moon women." In Ephesus, in present day Turkey, there was a Temple of Artemis, which became regarded as one of the seven wonders of the world. Hardly any of it now remains, but it was widely written about by many historians of the times.

The Artemis program was formally established in 2017. The Orion rocket, which will take new moon travelers to their destination, had its first unmanned test launch Nov. 16, 2022. The goal was to orbit the moon, then return to Earth, which it did.

The Artemis 2 mission, with a crew who will land on the moon, is scheduled for 2025. This mission will have the first woman to set

foot on the moon. This will entail a week-long mission on the lunar surface, as the two astronauts will collect samples from the lunar surface as well as below it. The mission will be equipped with 220 pounds of scientific equipment and be expected to return to Earth with 85-90 pounds of lunar samples.

There will also be the establishment of the Lunar Gateway, a lunar orbiting space station that will allow astronauts carried by the Orion rocket to transfer to a lander—and, on the trip back, transfer from Gateway back to Orion. The Lunar Gateway will provide docking for several types of space craft. This will be the very first lunar orbiting space station.

Artemis 4 will dock with the Lunar Gateway in 2027 and will initiate future moon landings thereafter.

NASA (National Aeronautics and Space Administration), the agency that oversees American space exploration, will partner with many corporations to create the rockets, landers, spacesuits and so forth that are critical to this mission. NASA was founded in 1958, the year the U.S. put its first satellite in orbit, three years before our first astronauts went into space. The Artemis program, while dedicated to a return to the moon, the establishment of permanent living and scientific lunar base, looks beyond the moon, to the next world America intends to explore—and inhabit; Mars. It is very likely that in your lifetime, you will not only see space explorers and researchers on our moon, but on another planet, one that has inspired so many science fiction stories.

At any rate, more and more science fiction is becoming fact. Someday soon, when you look at the moon, you will know there are other Earthlings looking back at you.

But if they stay on the moon, will they be Earthlings? Will the first baby to be born on the moon be called a "lunar child"? "Moon child"? We'll find out. It is interesting to note that in Greek mythology, Artemis was also the goddess of childbirth.

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# The History of the Moon

written by Paula Timpson photo from NASA

he object we call the moon came to be as such when a rock the size of Mars called Theia smashed into Earth. Mars is half the size of Earth. It was an explosive collision that made our moon. Craters on the moon can teach us about space history. English astronomer, Thomas Harriot, was the first person to see the moon through a telescope, a month before Galileo Galilei, the Italian astronomer did in July 1609. November 30, 1609, Galileo observed and sketched the moon. In 1610, Galileo, with his homemade telescope found four moons.

Earth's moon was given the name Selene by the Greeks. Selene is the moon goddess in Greek mythology. The moon was called Luna by the Romans. Galileo discovered the moon has mountains and pits. He made the first scientific measurements of the moon, and named the dark areas Maria, Latin for seas. He found the moon had little water. Any life there, had there been any, would have been different from life on Earth.

Even in ancient days, humans dreamt of reaching the moon. What a dream they had! In 1961, the United States desired to put the first man on the moon, and in 1969, Neil Armstrong was the first man on the moon. Apollo 8 made the first manned orbit of the moon in 1968. Jules Verne wrote famous classic science fiction books about the ambitious attempt to reach the moon, *From the Earth to the Moon* in 1865 and *Round the Moon* in 1870. The Soviet Union launched the first vessel to reach the moon in 1959. In the 20th century, the U.S. and the Soviet Union were the first to explore the moon. Polish astronomer Johannes Hevelius published *Selenographia* in 1647 with 40 pictures of the moon showing its phases of waxing and waning.

For 150 years, it was used as a special book for reference. The moon has always shown Earth the same face. It rotates once every time it circles the Earth. Life may change, yet the moon remains the same throughout history. Everyone sees the same moon.

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# Will China Be Next To Land on the Moon?

written by Jerry Cimisi

f the United States was the first—and only—country to land people on the moon, China plans to be first on the moon in the 21st century.

The first Chinese person in space was Yang Liwei, on October 15, 2003, with a 14-orbit mission that lasted for 21 and a half hours. In orbit, Mr. Yang assured his wife with "I feel very good, don't worry," subsisting on packets of shredded pork, Kung Pao chicken and eight treasure rice (a glutinous rice dessert, with lard, sugar and eight kinds of fruits and nuts), and of course, sipped Chinese herbal tea. TV viewers saw Mr. Yang waving a flag of the People's Republic of China and of the United Nations.

A Chinese astronaut is often called a taikonaut, from "taikong," meaning space or cosmos, combined with the ending "naut," as has been used in the American "astronaut or Russian "cosmonaut." ("Naut" is an ancient Greek word for sailor.") The official Chinese word for its space explorers is "yuhangyuan," meaning "universe space traveler."

Only a few years later, in 2007, China had begun its "Chang'e" program, or Chinese Lunar Exploration Program with robotic lunar landers and probes.

Chang'e is the Chinese goddess of the moon. The legend goes that long ago, the Earth had been beset by ten suns that made the earth parched and unbearable. Yi, husband of Chang'e, was an archer who shot down nine of the suns, leaving the one necessary sun. His reward was to be given an elixir of immortality. But he did not drink it. He gave it to Chang'e; he did not want immortality without his beloved wife.

Yi went out hunting one day and his apprentice, Fengmeng, burst into Yi's house and tried to force Chang'e to hand over the elixir. To prevent Fengmeng from getting it, Chang'e drank it. She then flew up to the heavens and chose the moon as her eternal place to live; she wanted to live near her husband, in sight of Earth. Yi, of course, was immensely saddened and began what would become the mid-autumn Moon Festival, by displaying the cakes and fruits that Chang'e

had loved on Earth. The festival is celebrated on the full moon of the eighth lunar month. An outdoor altar is set up facing the moon. On the altar are pastries for Chang'e to bless.

China has put 19 taikonauts into space, and in 2020, established a space station, the second country after Russia to do so.

After China's first lunar orbiter, Chang'e 1, was launched in 2007, Chang'e 2 was launched in 2010. Chang'e 3 had a lander and rover, and touched down on the moon in December 2013. Chang'e 4, also with lander and rover, was on the moon in January 2019—on the far side of the moon, the side that always looks away from Earth. To keep radio communication with Earth, the Chinese had placed the Queqiao satellite about 40,000 miles beyond the moon, to receive signals from Earth and beam them down to the moon, and vice versa.

Chang'e 5, launched November 23, 2020. It returned from the moon December 16, and brought back to Earth 61 ounces of lunar soil and rock for study.

China expects to be on the moon by the decade of the 2030s, with further lunar lander and rovers. Chang'e 6 will launch in 2025, and explore the South Pole Aitken crater basin, again on the far side of the moon, bringing back lunar samples to Earth. Chang'e 7, expected to launch in 2026 will be more complex, including an orbiter, a relay satellite, a flying probe lander and rover. The rover, Rashid 2, will be provided by the United Arab Emirates.

The plans for Chang'e 8 are not finalized, but will probably be a lot like Chang'e 7, as well as use 3-D printing experiment technologies and have a sealed ecosystem experiment, to try to grow plants. An earlier Chang'e mission had attempted this, but the experiment, after beginning well, failed.

It was in 2019 that China announced it intended to put humans on the moon by the 2030s. In 2021, China and Russia announced they would partner in building a moon base together, the International Lunar Research Station, around 2035.

# **Lessons Learned From My Piggy Bank**

written by Michael Payne illustration by Connie McGuinness

ome years ago, when I was about five years old, my parents gave me a small statue of a pig. The pig was made of pink plas-

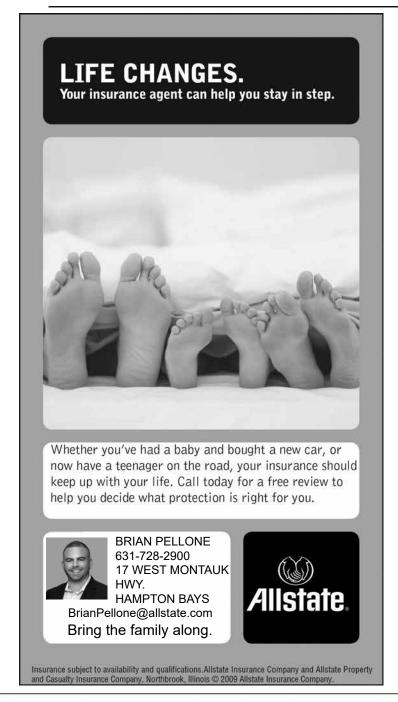
tic. It was hollow with a narrow slit on its back and a panel on its stomach that could be removed and replaced. My parents explained that the pig needed to be fed very regularly with coins through the slit in its back and that they would help me feed it. I thought the pig was pretty greedy, but we fed the pig every day with pennies, nickels, dimes, quarters, and half-dollars. Sometimes it seemed like a sacrifice to feed the pig. Instead of buying some treat for myself at the candy store, I would feed the pig.

To my surprise, it didn't take very long for my pig to fill up completely and get heavy with all the



coins inside. That was when having all those coins got really interesting. It was time to remove the panel on the pig's stomach, empty the pig, and count the money. I don't recall how much money I counted, but it seemed like a lot. I told my parents about it, and they helped me take the step with my savings that would make them grow without my adding more of my own money.

We took all the coins from my piggy bank to the local savings bank and opened a savings account. The bank then started periodically paying me additional money called "interest." But that was not all, the bank also paid me interest on my interest. That is called "compound interest," which makes money grow even faster. These were all lessons directly traceable to a simple piggy bank.



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# **Dear Ms. Spiral Notebook**

Dear Ms. Spiral Notebook,

My child is in sixth grade and his teacher said that his time management and executive functioning skills are weak. How do I work on this at home?

I would get three-minute, five-minute and 10-minute sand timers. The three-minute timer is great for having your child create

a to-do list based on his homework for the day. The five-minute one can be set for routines such as packing up materials, so they are ready for school the next day. The 10 minutes should be set for the actual homework assignment. Yes, at first your child will lose track of time and "run" out of time, but with consistency, he will learn that watching the sand can keep him focused and staying on task.



A visual timer is an option too! You can chart how long your child stayed focused to complete the activity. When your child sees that focus reduces the time he needs to spend on a task and reduces the frustration of not having what he needs when he gets to school, he will be more likely to keep learning more strategies.

### Dear Ms. Spiral Notebook,

My child is learning about the phases of the moon, and I am always looking for a video that connects to this that is educational and engaging.

When you can tap into your child's learning at school and extend it at home, that is a win-win. NASA has so many tools, but this quick video is engaging and will spur future conversations:

https://youtu.be/Yp3sc6OBv38

This additional resource has a lot of textual information as well, and you can never go wrong with National Geographic resources:

https://www.natgeokids.com/uk/discover/science/space/the-phases-of-the-moon/

### Dear Ms. Spiral Notebook,

During the height of the pandemic, my child "missed" out of learning cursive. The school did implement a quick course for the students, but there still is some practice that I want to include at home.

I do think this is a result of the digital age we live in. I do also see the importance of learning cursive even if it is not used 100% of the time. There are a ton of resources out there, both in traditional form and then with more creative options. One cute idea is by filling a pan with sand and having your child learn their cursive letters. This allows for quick reset, and it is tactile. Fun tip, you can easily practice this at the beach too! How fun! I would start with the formation of letters, then move to connecting the letters before words. If you can get your child to know the basic cursive alphabet with basic words and how to sign their name, bonus!







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# Starting as a Referee

written by Chris Clark, age 17 *The Waldo Tribune* Jr. Sports Columnist

any people consider stepping into a loud gym ahead of a big game is one of the most exciting moments in all of sports. But not many people think about doing it from the perspective of not a player, not even a fan, but a referee. I have been refereeing basketball games for just over three months, and here are some of the experiences and feedback I have from the job.

Putting on the stripes can be nerve racking, but over time you will become more and more comfortable. My very first experience was probably the most scary of them all. Walking into a gym with 500+ people ahead of a big city rivalry game, the fans breathing down your neck, and the coaches introducing themselves, it's a weird feeling. The hardest part about being a ref, especially as a 17-year-old, is getting used to the idea that I have more power then the coaches and players, who in some cases are 40 years older then I am.

Once the game starts, it is usually pretty smooth sailing. You make the calls, focus on your mechanics, and try to tune everything else out. But sometimes it becomes impossible to tune everything else out. This happens when there is a parent or a coach who won't stop yelling and screaming. Typically you just ignore them or give them a warning but sometimes they go way over the top, making it very difficult to focus on the game. In these rare circumstances I just give them a technical foul, or even kick them out of the game. Those types of events are rare, but handling them properly is very important.

I would say that reffing is something that I really enjoy. And if you love the game of basketball, I would highly recommend it to all people of all ages. It's important to have thick skin because you will get screamed at, but in the end, the loud roar of the crowd and the sound of the ball swishing through the net, all make the job worth it.

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# The Sad Moon

written by Waldo the Clown illustration by Rosemary Szczygiel

The moon hung in the sky all alone. The stars were far away. The earth was blue and green, and was slowly getting dirty and filled with toxic gases. Cars were killing the birds, the ice from the polar regions was melting from the heat, wind was blowing down houses and rivers, lakes were drying up, and the smoke was polluting the air.

The moon, who was all alone in the sky, loved her planet Earth and was very saddened by her humans that weren't taking good care of her, and she began to cry.

But luckily, there were people on earth who care about the Earth, and they have passed laws to protect her. Cars could run on electricity, cans and other garbage could be recycled or composted, and solar grids could heat houses. Animals can be protected by laws so that they don't become extinct. People could plant trees so that the oxygen is preserved. There are lots of things kids can do to help safe our Earth and so the moon doesn't have to cry any more.





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This photograph of a nearly full moon was take from the Apollo 8 spacecraft.

# **Craters On the Moon**

written by Paula Timpson photo from NASA

rater in Greek means vessel, which was a bowl used to mix wine and water. Astronomer Galileo discovered the moon has mountains and craters, which are deep holes on the moon's surface. Craters were given their name by Johann Hieronymus Schroter. All of the craters are named after ancient and modern philosophers and astronomers. One hundred thousand craters exist on the moon.

Amazing, some are miles long and are billions of years old. Chinese lunar orbits see the craters, and share data gathered. When meteorites crash into the moon, craters form. The moon is covered with crater holes. Every day, rocky pieces of meteoroids, or space debris fly at the moon from outer space. They explode when they hit the moon, making moon craters. The moon is an easy target for meteoroids. The biggest and fastest meteoroids make the biggest craters. Most are round.

Moon craters are huge. The Monument to the Craters of the moon is the size of Rhode Island. The South Pole Aitken basin is the largest crater on the far side of the moon. It is 1,550 and is eight miles deep. It is one of the largest and oldest craters in the solar system. Amazing. The youngest crater on the moon's near side is Tycho. It is 85 kilometers. It is visible as bright rays when the moon is full. The moon has a new double crater after a mystery rocket collided on it.

The Apollo basin crater was named to honor Apollo space missions. The largest craters on the moon, such as Mare Imbrium, have been flooded by lava. This explains why we cannot see them. Aristoteles is a crater named after the ancient Greek philosopher Aristotle by the International astronomical Union. Hippocrates is a crater named after Hippocrates, the ancient Greek physician. In 1651, Giovanni Battista Riccioli began the tradition of naming moon craters after scientists and others explorers who have passed on.

Neil Armstrong landed on the Little West Crater in 1969 with Buzz Aldrin in the LM Lunar Module Eagle. Eugene Shoemaker, founder of astrogeology, which is planet science, is the only person whose ashes, carried in a vial, slammed into a moon crater, have been buried on the moon in 1998. Copernicus is a large crater 60 miles wide on the moon. Craters can show the age of the moon. The moon is covered by impact craters which are very old and very large. The moon in its ancient way shares with us its light forever. Scientists can better figure what happens when large objects hit the moon, helping us learn more about the Earth.



# Legends of the Moon

by Jerry Cimisi

Some of the oldest legends about the moon tell of a time when there was no moon at all.

The Roman poet Ovid wrote of Greece's Arcadians, who claimed they were older than the moon.

You have heard of the "man in the moon." The moon has light and dark areas, and these areas can be seen as a face, or an animal. European cultures saw the face of a man, while Chinese saw a rabbit Yutu on the moon, who is the companion of their moon goddess, Chang'e.

Native American medicine men said they could visit the moon in a trance. In fact, after the first moon mission in 1969, one Native American commented, "What is so special about that? I've been there many times."

All over Earth, the moon is usually seen as female. The moon goddess of the Greeks, Hecate, and of the Romans, Artemis, is female.

In many cultures, the moon is frequently shown in association with the wolf, due to the animal's nocturnal habits. Probably the most famous legend about the moon concerns the werewolf, or wolfman. A man is bitten by a wolf and then, under the light of the full moon, becomes a wolf himself.

Those who study folklore belief say this legend grew out of the fact that until the beginning of the 20th century, wolf attacks on people were not uncommon. The menace of the wolf was real and then became was exaggerated into a monster.

The movies of the 20th century featured the legend of the wolfman. These movies could be very scary, or funny, even corny, such as the Abbott and Costello monster movies, with Dracula, Frankenstein and the Wolfman.

It is believed more crimes are committed during the full moon, and that people may act crazy. After all, we have the term "lunatics." And many people claim ailments pain them more during the full moon. This could be very possible. The moon affects the tides all over the Earth. The human body is mostly liquid, so it could be the case that the moon affects the "tides" of the body.

In 1835 the *New York Sun* published entirely fictional articles masquerading as fact, concerning life on the moon. These came to be called "The Great Moon Hoax." *The Sun* claimed that an astronomer had discovered "lunarians, who were bat-winged". The articles were illustrated with these lunar bat-men.

In 1970, two Russian scientists wrote an article describing their theory that the moon was actually an artificial giant spacecraft created by extraterrestrials.

It's interesting to note that the American Apollo missions set off small explosions on the moon in order to measure seismic activity (underground vibrations). To everyone's surprise the moon "rang like a bell," and did so on one occasion for as long as an hour.

In future decades, as space travelers visit the moon, there will certainly be new lunar legends to arise.



# **A Favorite Bedtime Story**

reviewed by Eric Wald

"Goodnight Moon"
written by Margaret Brown
Illustrated by Clement Hurd
Harper Collins Publishers
\$18; hardcover
copyright 1947

words; a book that has been read to children for generations, the essential book to help put little children to bed at night with warm milk and cookies, a book that is as sensitive, as beautiful, as important to read to, so that children know that they are safe, warm, and loved. It is a book that touches the very soul of children and puts them to sleep in almost a meditation chant that makes one believe in goodness, that touches the very part of childhood. There is no question that "Goodnight Moon" is a book for your young child to be read to that makes one reach the very beautiful world of childhood, tenderness and innocence that every child has.

This book is highly recommended for your child, and is a beautiful special gift that one falls in love with and keeps for a lifetime, as part of their childhood.



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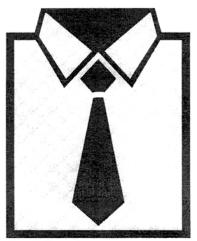
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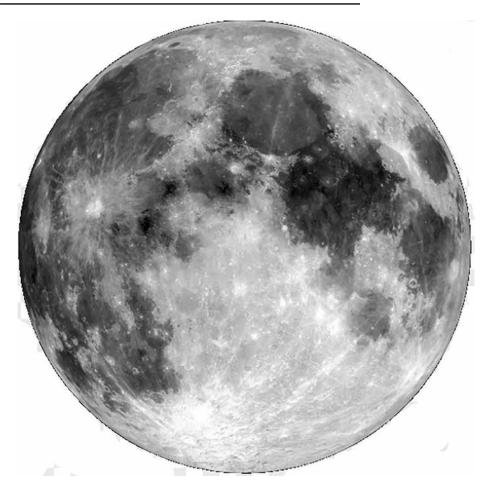
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# The Moon's Cycles

written by Paula Timpson

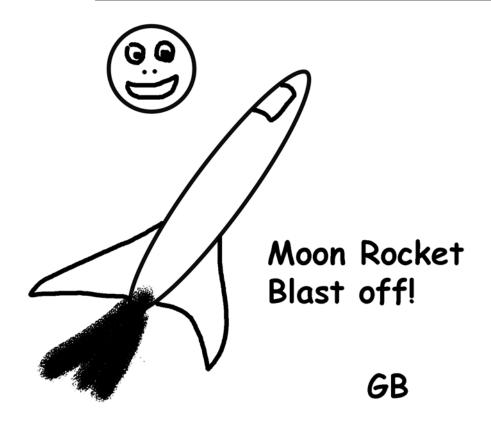
nce every month, the moon phases make a complete cycle. The moon's surface is dark. As the moon circles, it makes its journey. The eight moon cycles are new moon, waxing crescent, first quarter, waxing gibbous, full moon, waning gibbous, third quarter and waning crescent. It takes 27 days for the moon to complete its path orbiting Earth. The first quarter is a half moon. The new moon begins and as more of the moon is seen it is called "waxing". When less of the moon is seen, it is called waning. We cannot see the moon when it is a new moon. Waxing gibbous is phase between a half moon and full moon. Waxing means the moon is getting bigger. When the moon is full, we see it is full of light.

Waning gibbous is the cycle that is between a full moon and a half moon. Waning means the moon is getting smaller. The third quarter moon is when the opposite half of the moon is bright. In the waning crescent phase only a sliver of a moon is seen. It looks like a sideways smile. The light we see from the moon is the sun reflecting onto it. The moon is 400 times smaller than the sun.

The moon causes tides in the ocean to swell and be full. It is amazing the way the moon can pull the tides. The moon makes the Earth move. Gravitational pull of the moon is what causes the tides of the Earth. The moon is much smaller than Earth, although it appears big to us when we are standing and looking up at it. There is less gravity on the moon.

Look up to the moon, and see if you can find the phases it goes through each month. The light is natural. The moon is a beautiful gift for the world every day. It is there always, even when we cannot see its shine.

Make a fun tradition with moon pizza. Every full moon, celebrate by enjoying pizza for dinner!! A study in 2021 discovered people fell asleep later and slept less on nights before a full moon. The moon changes night to night, just as we are all changing too.



# Moon Jokes

written and illustrated by Greg Bullock

Why did the cow jump over the moon? It was too far to walk around.

Why did the moon stop eating? It was a full moon!

Why was the Man in the Moon grouchy? He was going through a phase.

Why did the astronaut go to the doctor? He wanted a moonshot.

Tulip: Mission Control calling Waldo Moon Base. Waldo: Moon Exploration Clown Team reporting.

Tulip: What have you discovered?

Waldo: The Moon is made out of cheese!

Tulip: What kind of cheese?

Waldo: Blue Cheese!

Tulip: !!!!!!!!!!

There once was an astronaut named Grace, Who wanted to live on Moon Base. She went on a trip, on a big rocket ship then Moon Base was the new home of Grace! (See cartoon.)

What holds up the Moon Base roof? Moon beams!

Why is it expensive to live on the moon? Because the costs are out of this world!

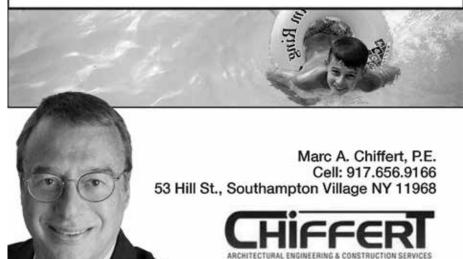
Why did the restaurant on the moon only get mediocre reviews, even though the food and service were very good? No atmosphere!

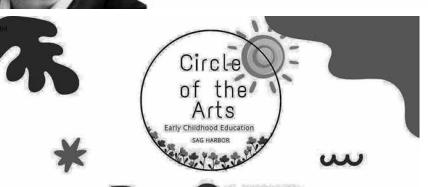
What do you call an parasitic insect on the moon? A lunar-tick!



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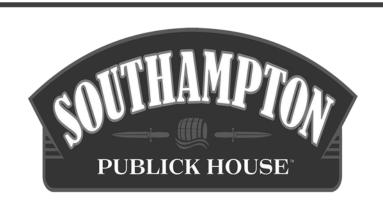


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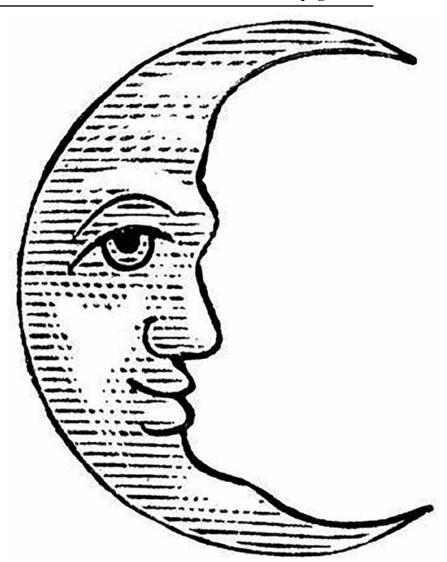
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# Judaism and the Moon

written by Eric Wald with special thanks to Rabbi Rafe Konikov and Rabbi Berel Lerman

he Jewish calendar is a lunar calendar which is based on the orbit of the moon. According to Jewish tradition, it takes 29 1/2 days for the moon to go through its phases and circle around the earth. This process makes up a lunar month.

The Jewish holidays are based on the dates as they fall on the Jewish calendar, which is based on the cycles of the moon. One of the commandments the Israelites were given when they were slaves in Egypt was to keep a lunar-based calendar.

What we learn from the calendar is to maximize every day and every moment for the purpose of bettering oneself and our society. The cycles of the moon teach an important lesson even when the moon wanes and disappears, eventually re-emerging and waxing again.

The stages of growth of the moon reveal a blessing for the Jewish people and humanity at large, mirroring the cycle of the moon.

The moon is mentioned in the Bible and Torah. In the early part of the book of Genesis. According to those texts, the moon was created in the first part of creation, according to Chapter 6, yerse 16

Rabbi Berel Lerman of the Center For Jewish Life says, "Every month after the cycle of the moon starts again, we recite a prayer for the blessing of the moon. It is customary to walk outside after nightfall, look up to the sky and observe the moon." He added, "We then recite a prayer and reflect on the wonders of its natural beauty."

In Jewish literature, the moon symbolizes selflessness, as the moon doesn't possess light its own. It gets its light from the sun. We can all learn to be more selfless and giving like the moon.



# The Moon's Vacation

story and drawing by Tristan Amani Ward, age eight

The moon is going to the sun. It is tired of orbiting Earth, so it will become a planet for a while. If the moon disappears, the Earth's axis will wobble.

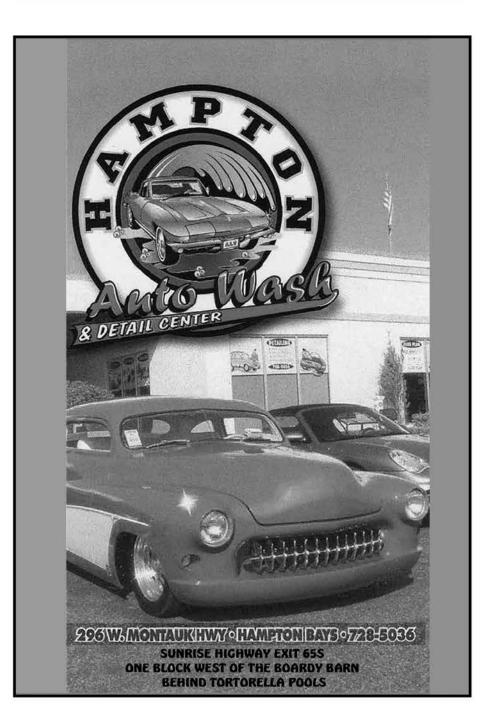
There will be no seasons because of this. There will be ice ages. Kids will say "Hooray! Snow days!" The moon is going to get hot on the sun and he will tan. He will have a fan to cool off with. He is going to cook breakfast on the sun. He will cook pancakes. He will enjoy a new world, and walk on the sun.

He will do fun stuff in the sun's city! He will go to a dancing contest, to the movies, and the Mercury Shoot. The Mercury Shoot is a shoot to the planet Mercury, so fast that you can't even feel it.

The moon comes back to Earth's orbit 100 years later, and will go back to being a moon.







# **Letter To Waldo**

Dear Waldo,

My name is Jude Sokolov, and I am 18 months old. I love my Mommy, Daddy, Grandmas, Grandpas, and our dog Benjie. My favorite thing to eat is cheese. I live in Philadelphia. I love to dance. My Grandma says I am a fun machine wherever I go. I love to run and scream. I love olives. My Grandma says I'm an old soul with a great sense of humor. When I get bigger, I am going to read *The Waldo Tribune*.

From, Jude Sokolov



# Earthrise



Earthrise is a picture of Earth as seen from some of the Moon's surface

What three things are different?



### Answers to the Moon Issue Puzzles (Turn upside down to see.)



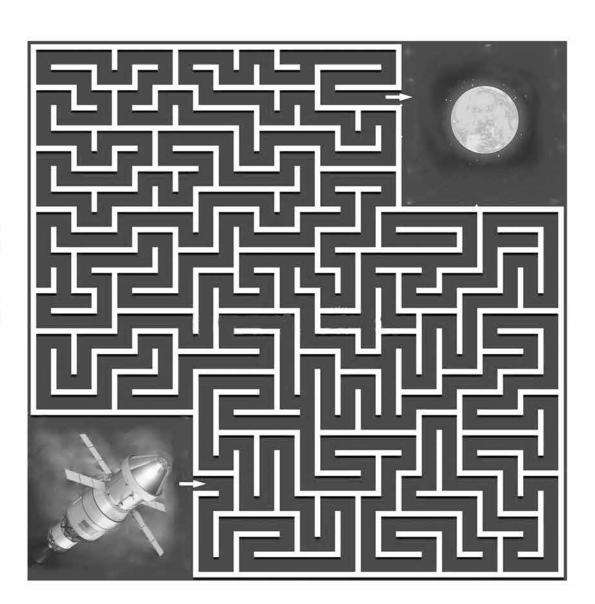


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# **MORE MOON PUZZLES**

# Moon Maze

Help the Orion
spacecraft
travel more than
1.4 million miles
on a path around
the Moon and
return safely to
Earth, to
complete the
Artemis I flight
test.



APOGEE-the most distant point (ap-) on an elliptical orbit around Earth (-gee)

ECLIPSE-when the Moon is inside Earth's shadow, with the Sun completely blocked as seen everywhere on the lunar surface

CRESCENT-phase of the Moon when the Earth-facing hemisphere is illuminated over less than 50 percent of its area

FULL-alignment in space is Sun-Earth-Moon. The Moon is exactly 180 degrees opposite the Sun

NEW-of alignment in space is Sun-Moon-Earth GIBBOUS-phase of the Moon seen when the

Earth-facing hemisphere is illuminated over more than 50 percent of its area

PERIGEE-the closest point (peri-) on an elliptical orbit around Earth (-gee)

PHASE-generic reference for the apparent shape and position of the Moon or its age

QUARTER-"first" or one of either "third" or "last" SUPERMOON-a new or full moon which occurs with the Moon at or near (within 90% of) its closest approach to Earth in a given orbit (perigee) WAXING-describes the increasing amount of illumination of the Moon's face before full moon

illumination of the Moon's face before full moon, starting from new moon until full moon WANING-describes the decreasing amount of

WANING-describes the decreasing amount of illumination of the Moon's face after full moon as it moves to new moon

DIANA-Roman moon goddess

MONDAY-the second day of the week has been classified as the moon's day since Babylonian times

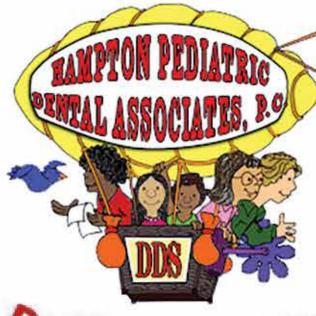
# FIND THE HIDDEN WORDS

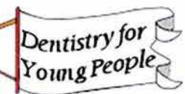
You can go across, down, or diagonally...

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