

Cedar Chips



TAMPA BAY WINS SUPER BOWL

By David R.

Tom Brady has done it again. The Tampa Bay Buccaneers beat the Kansas City Chiefs 31-9 to give the franchise its second Super Bowl win. It was a surprisingly boring game with the Chiefs' high powered offense being held to only three field goals.

What people expected to be a close game turned out to be a complete blowout. The Chiefs could not get their offense going and made no adjustments to the constant pressure of the Bucs defensive line. The Bucs played great all around football and no doubt deserved to win the game. There were some questionable penalties called on the Chiefs defense, but even then, you can't score nine points and expect to win.

This Super Bowl win is the 7th of Tom Brady's career and gives him more Super Bowl wins than every single NFL franchise. This win further cements his legacy as the greatest quarterback of all time. No matter how much you hate him, you can't deny how great he is. Although I hate to say it, it is cool to see him leave the Patriots and win his first year with Tampa. Somehow he is still going at the age of 43, and it is becoming more clear that he obtains his power from his son.(I am not allowed to say how.)

Obviously having Brady helped, but the Bucs' defense played phenomenally. Holding the number 1 ranked offense to zero touchdowns is incredible, and they deserve a lot of praise. Mahomes had no time to throw the ball and was unable to do any of his crazy magic. This was the first time in Mahomes' NFL career that his offense hasn't scored a touchdown, and the first time he has lost by double digits.

All in all, the game sucked, the commercials sucked, the halftime show sucked, and somehow, Brady still reigns supreme.



Inside...

Did you watch *Winx Club* as a kid? **Cat**'s got a new show for you...

Looks like our main man, **Ian**, whipped up something fresh on a Minoan tsunami! Who knew a 100 ft wall of water was as scary 3000 years ago as it is now?

Check out **Sophia**'s article for some patent *upending*! Need something creative to fill your time? Boy do we have what you're looking for! **Avi**'s got the lowdown on alter books!

Liam's got some good vibrations in this edition with info on musical frequencies...



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440 Hz vs 432 Hz

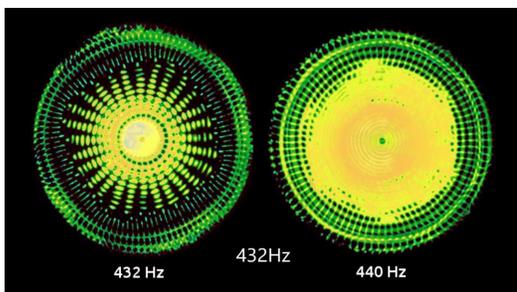
By Liam C.

You've heard music through radios, youtube, soundcloud, etc. Have you ever felt bad vibes like feeling tired or depressed suddenly from music? The reason behind this is because of the frequency they play the music on the radios, online, etc. It's actually not the music itself, believe it or not. The frequency we all usually hear is 440 Hz (hertz). No one can say for sure why this frequency was chosen in the first place. In fact, there are those among us who disagree with it. In fact, they consider 440 Hz to be an abomination against nature.

Meanwhile, 432 Hz doesn't make you feel any bad energy at all. 432 Hz tuned music was associated with a slight decrease of mean (systolic and diastolic) blood pressure values (although not significant), a marked decrease in the mean of heart rate (-4.79 bpm, $p=0.05$) and a slight decrease of the mean respiratory rate values (1 r.a, $p=0.06$), compared to 440 Hz. The subjects were more focused when listening to music and more generally satisfied after sessions in which they listened to 423 Hz tuned music.

The rapper XXXTENTACION was in an interview in 2018 where he talked about the differences in the frequency between 440 Hz and 432 Hz. He even stated that he always made his music in 432 Hz, but they always changed it to 440 Hz. It has also been said that 432 Hz has healing properties.

That's simply what I've learned about music frequency. If you have any songs that you may want to tune to 432 Hz, you can go to 432hzconverter.com to tune the frequency to 432 Hz. You can tell the difference between both frequencies when you listen to the same song.



Fate: The Winx Saga Netflix Adaptation

By Cat S.

Fate: The Winx Saga is in the top #10 shows on Netflix.

If you liked the show *Winx Club* when you were a kid, then you'll like the new Netflix show *Fate: The Winx Saga*, which is based on the 2004 *Winx Club* with both familiar as well as some new characters.

Season 1, which consists of six episodes, is now on Netflix. The show stars Abigail Cowen as Bloom, Danny Griffin as Sky, and Elisha Applebaum as Musa. Bloom, Stella, Aisha, Musa, Sky, and Riven are all from *Winx Club* while Terra, Sam, Beatrix, and Farah Dolwing are new in the series.

Bloom, Stella, Aisha, Musa, Terra, Beatrix, and Sam are fairies, while Sky and Riven are both specialists. All of the characters live at a boarding school called Alfea. Alfea is where the fairies learn to control their magic while the specialists learn to fight and protect the Otherworld from the Burned Ones.

In *Winx Club*, two of the main characters (Bloom and Sky) who are revealed to be royalty fall in love. But in the Netflix version, it is unclear if Bloom and Sky are royalty. Their story is one of the main plot lines, and I love it because when I was a kid, I wanted to be like Bloom.

The theme of Fate is definitely more dark and for older people than the theme of *Winx Club*, which is kid friendly and has no bad language

I am drawn to this show for a couple reasons, I loved the original as a kid. I also love the clothes from the show and am working on collecting a few of them. I am virtual meeting Danny Griffin who plays Sky on Feb 21st, so if you have any questions for him, let me know.

For people who loved watching the original cartoon, the Netflix adaptation is the perfect show to watch while stuck at home.

Ancient Tsunami

By Ian A.

Just 200 miles to the Southeast of Athens, lay a series of islands in the shape of a ring, called Santorini (in Greek, “Thera,”) surrounding an active volcano situated in the middle of this ring. Between the outer and central islands is a body of water that spans a little over 32 square miles, with a depth that varies between 1,000-2,000 feet.

The volcano in the center still erupts periodically, with the last major seismic event taking place in the 1950’s; while this formidable mountain is a menace, it is only the veritable tip of a truly colossal iceberg. In fact, the entire archipelago is a volcano!

The islands of Santorini (Thera), Therasia, and Aspronisi form the rim of a great caldera: a crater resulting from the collapse of a subterranean magma chamber which has expelled its contents (as in a volcano eruption), and is thus filled with water.

In ancient times, this caldera was much smaller than it is now, and the encompassing land was a contiguous circle with a narrow strait on its Western side, allowing the Aegean Sea to pour in. Because of its shape, in fact, the ancients referred to the island as “Strongili,” which meant “circle” in ancient Greek.

At the center of the caldera was a behemoth of an island, which towered over the mainland. This gargantuan heap of rock was the result of an aforementioned magma chamber being forced upward, eventually bursting out in an eruption. Such was the case in the second millenium BCE, during the Bronze Age.

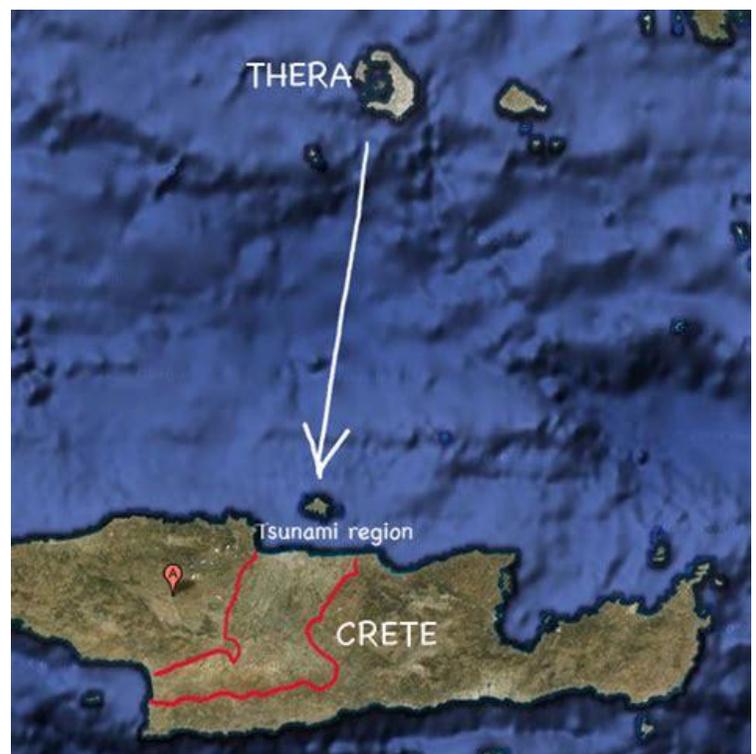
There is evidence of human habitation in Greece and its surrounding islands dating as far back as 3000 BCE. The largest of these, Crete, acted as the base of a rather successful society. These people were the Minoans, who were contemporaries with the likes of the Hittites and the Egyptians. The volcanic island of Thera was inhabited by Minoan people. Indeed, there were a few prosperous settlements present when the eruption began.

It must have alarmed the locals when the ground began to violently shake. They may have looked up at the mountain they dwelled under, to see smoke emanating from the peak. A thin layer of ash appears to have fallen across Thera prior to the massive, four-phased eruption, suggesting a limited precursory event, most likely warning the inhabitants of what was to come several months in advance. In any case, villages were evacuated, evidenced by the utter lack of human remains at any of the archaeological sites all over the archipelago.

In the first phase of the eruption, pumice and ash thrust upwards from the mountain and blanketed many Minoan structures without much damage. In stark contrast, the second and third eruption phases consisted of pyroclastic flows and lava fountains which annihilated any remaining exposed structures. A pyroclastic flow is a current of hot gas and volcanic debris, which buries or incinerates whatever lay in its path.

During the third phase, the caldera began to collapse. Once the fourth phase initiated, the caldera caved in entirely, with hundreds of tons of rock falling into the sea. The resulting splash, so to speak, was unimaginably huge. Mega-tsunamis rushed outwards from the destroyed volcano, barreling towards the Minoan homeland of Crete.

Though the Santorini explosion was one of the largest ever recorded in human history, it was most likely not the sole reason the Minoan civilization fell. With that being said, the effects of the eruption impaired their economy irrevocably.



Tsunami continued from page 3

Initially, ash-fall and climatic effects were thought to have caused the most damage. In many instances, clouds of volcanic material block sunlight from reaching certain areas, causing plants to die, and those who eat them as well. But it was not so in this case, as only small amounts of ash were deposited on mainland Crete, most of it falling upon Turkey to the East.

Environmental disruption seems not to have made as large a dent as was suspected at first (a period of unusual cold was recorded in China at the time, however). All of this points to one particularly destructive consequence of the eruption: the mega-tsunami! This term is not hyperbole, as it is possible that a wave up to 100 feet tall crashed upon the island, washing away people and their homes. To give context, a tsunami of that scale could swallow a ten-story building.

There is evidence of continued existence above the sedimentary layers associated with the tsunami, but the Minoans would not recover. What is interesting, though, is the increase in art consisting of sea creatures and monsters, along with other things of an oceanic nature.

Although it was not so for the people of ancient Crete, the eruption of Thera is extremely fortuitous for contemporary archaeologists. Under the pumice and lahal (volcanic mud) from the first phase of the explosion, immaculately preserved ancient houses, structures, and wares transport scholars and tourists alike 3000 years into the past.

Top Ten Letters

By Sophia S.

1. A
2. C
3. Y
4. W
5. S
6. B
7. U
8. L
9. Q
10. I



10 Lesser known African-Americans you should know more about!

- Wilma Rudolph
- Carter Woodson
- George Washington Carver
- Bayard Rustin
- Henrietta Lacks
- Amanda Gorman
- Douglas Wilder
- Marsha P Johnson
- Shirley Chisholm
- Dr. Rebecca Lee Crumpler

- 😊 seeing friends
- 😊 wearing your fav outfits
- 😊 seeing your favorite teachers
- 😊 seeing your favorite clinicians
- 😊 snacks

**HUGS &
HITS**
By Cat S.

- 😞 face mask
- 😞 no water fountains
- 😞 no hand touching
- 😞 no seeing other students in person
- 😞 lunch



Why I think Patents are Stupid

By Sophia S.

I think patents are stupid. That's a bold statement, because many people's wealth is built off them. Patents are basically the government's way of recognizing you "own" an invention. They are given so that other companies or people cannot manufacture or pass off your invention as their own. Although I do admit in theory that sounds good, in practice it sucks. I'm going to tell you why.

Imagine you work as an engineer for some big car company, let's call it Fesla. You've just made a magnificent breakthrough on putting solar panels on the roof of cars to provide energy. Your entire team celebrates your collective achievement. "We're rich!" you think.

Well, think again, because according to your very legal contract with Fesla, you don't actually own the rights to that patent. Fesla takes all your hard work down to the patent office and comes back with a shiny new declaration of ownership. All the credit goes to some billionaire name Kelon Must, and you are given your normal salary and expected to do it all over again.

Many people will argue that the company does indeed own the rights to the product. They'll say that the workers used company property and resources, but that just doesn't make sense to me. If there was no engineer, then there would be no product. You can have the resources, but unless you have someone to work with those resources, they will stay the same. Without the workers, the company would have nothing.

Patents provide a way for big business to use their workers and makes it so much harder for use of the technology. Advancements should be for the good of the people, not to make money. That being said we do have a capitalist economy, so I understand we live and breathe to make money. In that case, I think we should at least be able to give credit to the actual inventors.

Stop using all this patent stuff to give businesses another way to steal money from their workers, and hinder the usage of what could be world changing technology.

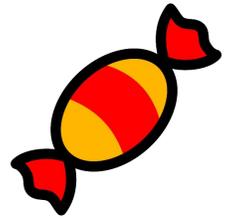


Top Ten Candies

By Liam C.

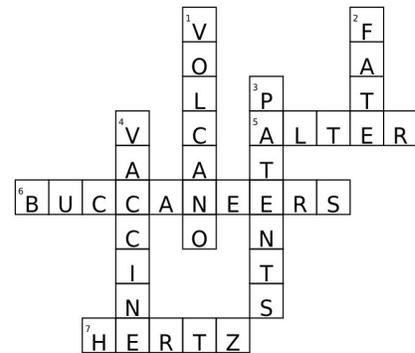
Despite that this list sounds more like Halloween, people sometimes also gift people candy for Valentine's Day as well. Here is my list of favorite candies of all time. They're not in order

- Hershey's (Sometimes with almonds in it)
- Reese's Pieces
- Skittles
- Sour Patch Kids
- DOTS
- Kit Kats
- Airheads
- M&M's
- Sour Gummy Worms
- Twix



**No peeking! Answer Key
Do the puzzle on p. 7 first!**

Cedar Chips Crossword



Down:

1. A _____ is causing tsunamis near Athens.
2. "_____": The Winx Saga"
3. These are used to claim copyright.
4. Johnson & Johnson's has created this for covid-19.

Across:

5. _____ books can be used as a form of artistic expression.
6. What is the name of the Tampa Bay team that won the Super Bowl?
7. What is frequency measured in?



Welcome Back!



J&J's Covid-19 Vaccine Is Safe and Effective, FDA Says

By Liam S.

The Food and Drug Administration (FDA) has approved a third vaccine for use against the spread and outbreak of Covid-19 in the United States (US).

Johnson & Johnson's Covid vaccine allows for a quicker, more efficient rate of vaccination, relative to other separate ones. This would be more efficient for the general population receiving it because one, fast shot is better than two, slow ones, allowing people's time to be spared rather than wasted.

Unfortunately, there is one downside to Johnson & Johnson's new vaccine: it has a significantly-lower efficiency rate when compared to Pfizer-Biontech (a staggering 95%) and Moderna (a whopping 94%), with a measly 66.1%. Because of that, it has caused much consternation among the general population over whether or not it would help prevent the spread of the virus successfully or not.

On the flip side, the FDA deemed the vaccine as safe. Even more astoundingly, the vaccine could come as early as over the weekend.



Altering Books to Alter Your Perspective

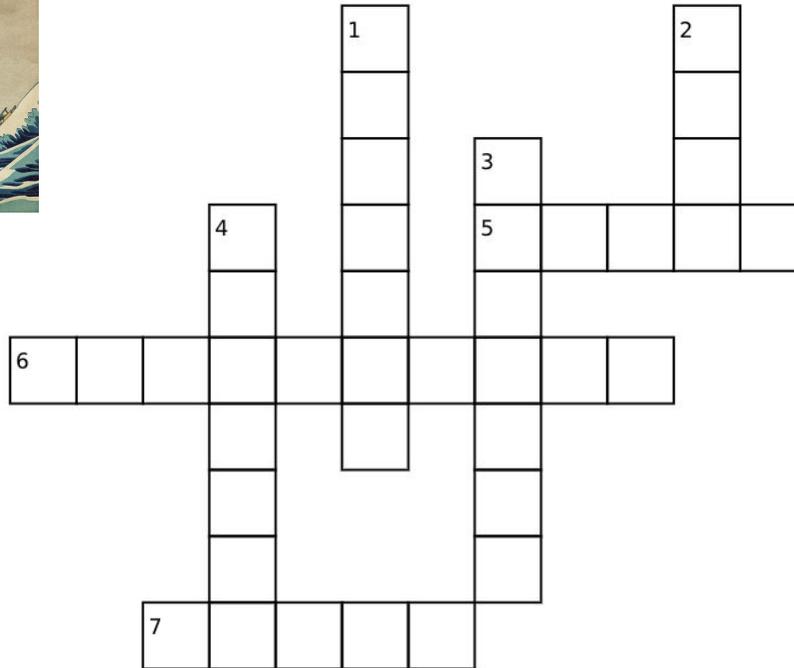
By Avi W.

As long as people have been alive, there have been people who create art. It is a vital part of culture, and is changing as rapidly as we are. During quarantine people have had more time to create art in one way or another. This could be through color by numbers, painting on your jeans, or any popular trend on Tiktok. One form that isn't talked about too much is something called "alter books". These are made by taking any physical book and altering it in some way to make it new and one's own. One may do this by painting in them, adding pictures, using the words on a page to create a blackout poem, and much more.

As the digital world only becomes more widespread and versatile, many things such as physical books have become unnecessary, causing something cherished for centuries to collect dust or simply be used as decoration. While one may not be using it for its original purpose, creating an alter book gives a treasured item a new life- a life that one will never throw away, as it not only tells the story it was first given, but the story of the book holder as well.



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Down:

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2. "____: The Winx Saga"
3. These are used to claim copyright.
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Across:

5. _____ books can be used as a form of artistic expression.
6. What is the name of the Tampa Bay team that won the Super Bowl?
7. What is frequency measured in?

Answer key on page 5.

10 Great Songs from the 1970's for a Good Time!

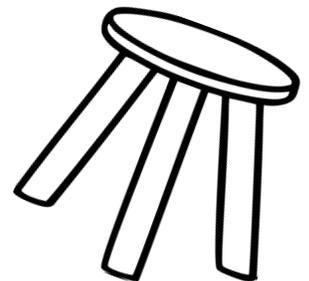
By Ian A.

1. "What a Fool Believes" by the Doobie Brothers
2. "Georgy Porgy" by TOTO
3. "You Make Loving Fun" by Fleetwood Mac
4. "Cities on Flame with Rock and Roll" by Blue Oyster Cult
5. "What's Going On" by Marvin Gaye
6. "Minute by Minute" by the Doobie Brothers
7. "Carry on my Wayward Son" by Kansas
8. "Jane" by Jefferson Starship
9. "Peg" by Steely Dan
10. "I Saw the Light" by Todd Rundgren

TOP 10 FURNITURE PIECES

By David R.

1. Chair
2. Table
3. Desk
4. Sofa
5. Stool
6. Bed
7. Bench
8. Ottoman
9. Bookshelf
10. Futon



Word Search

C P H O Q N Z T H H X V D A K M S L T U F G P B N
O U I J Y X M E B I R B R I A N H C R R E T O V Z
D S E H Z Y A Z F W Z U D G U T O C E T N L E K Y
T Z V P S R T L C G J W F G D R R C T O O V T V T
L I C E T D O L M R D I T O L H T W N L E Q R M R
T V L I I W N G R O U N D H O G M S I J M B Y G U
S H S M E E S E Z M C T T T Q Q O F W N O N J N H
U S C R K M L N I B D D L F Y D N A C J S Q U M S
X Y S L S A N S O R N P I Z I R T W H R L V I M W
E T A L O C O H C W F C O L D I H T T H A X O J B
E H J D D N U J J X F Y Y U G U R N E A I O T I K
I C Y S E V E O P M E J R A P O W D S L C A F P Q
Z V N T K L K L I D D X A O H F G I E H E U I G E
M T N A B I E K I B X O E S T E Q H E K P Y C G R
L V J M M X M L Q N H L T V H S M S M D S T W M R
V M K W Q O G A U U E D O O D Z I A D J M C Z W O
K T J A P N R N S K J S G Z V F F H R A O G E O Z
G L F C I X G E C K U D S I A Y E P W D W H N K R
P P X L W V P X D E A U I J O J B M D E I I D A H
P F L W U L C B I Y Y A D T O T R E T A T G E R R
O A N F J J X O W F N O V Q J L U M H T P Y R M I
F M P B X O V V C V M L Z B W O A E J M P B X A N
B L A C K H I S T O R Y Z Q W V R L F A H D P X S
O G Y W M S N U B O I K N H L E Y D E B P C Q V I
E N I T N E L A V R F E X B P F I L L M Z R T E C

Black History
Candy
Chocolate
Cold
Falling
February
Flowers
Friendship
Groundhog

Heart
Hedgehog day
History
Hurt
Ice
Leap Year
Loneliness
Love
Mardi Gras

Poetry
Romance
Short
Short month
Ski Mask
Smooches
Snow
Special Someone
Tater tot day

Ukulele day
Valentine
Winter

