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... and much more!

TRY THIS CROSSWORD!

HURRICANES

ACROSS
2) Hurricanes develop over ____ water
4) Another name for a hurricane
6) Hurricane that hit North Carolina
7) When hurricane season ends

DOWN:
1) When hurricane season starts in the Atlantic
2) Largest hurricane ever
3) Hurricanes can also form ____
4) Hurricanes form in ____ areas

On the front cover: PHHS varsity football team warming up during their stretch and form run.

FACT BUBBLE:

DID YOU KNOW? A TYPICAL SQUIRREL SHOWS A 15 PERCENT INCREASE IN CERTAIN AREAS OF BRAIN DURING THE FALL.

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A NOTE FROM THE NEWSPAPER STAFF
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Here’s the 2nd issue of the school newspaper! This time, we have some interesting topics!

In this issue, we discuss the new concerns regarding vaping, the effects of a long-gone history that still affect us today, and the modern changes within baseball statistics!

Read through to find out!
We all know about the infamous Juuls and e-cigarettes that are the rampage around the world. There are many organizations that are trying to stop minors from becoming addicted to them with the latest being the FDA.

The Food and Drug Administration is now taking action to keep vaping away from minors. The agency has sent 1,100 warning letters and 131 fines to companies who sell the e-cigarettes to minors. The problem is e-cigarettes contain higher levels of nicotine than traditional cigarettes, even though they contain far fewer toxic chemicals. Therefore, teenagers, whose developing adolescent brains are particularly vulnerable to addiction, become addicted to nicotine even if they have never smoked before.

The FDA is focusing attention on the Juul Labs, which claims to be helping teenagers stay away from e-cigarettes. They have agreed to comply with the FDA’s rules and are trying to prevent underage use of their product. However, the FDA still needs to look closely at whether Juul and the other manufacturers are allowing bulk purchases of products through their own websites — a practice where the buyer could then sell to minors.

Experts believe that e-cigarettes and similar products known as electronic nicotine delivery systems may be effective options for adults who want to stop smoking but still crave nicotine. But teenage vaping has become so concerning that regulators may have to curb the availability of the devices to keep them out of the hands of youths. In fact, the FDA has also been investigating Juul’s marketing practices to determine if the company deliberately targeted youths. The company has released thousands of pages of records to the agency, but none of them have been published to the public yet.
The rise in concern of these products have only increased the past few years. When studies were done six years ago, the amount of nicotine was not a problem. However, later products like Juuls contain more nicotine, and can even increase depending on how deeply a user puffs. The heat from the e-liquid flavors has yet to be studied.

Because of the increasing concern, the FDA has asked companies to mention age limits when advertising. Consequently, Juul asked Instagram to remove over 5,500 posts, and the social media company complied on 4,562. Facebook Marketplace was less cooperative; the company agreed to remove 45 of 144 posts. Amazon took down 13 of 33.

At this point in time, the FDA is not impressed with the measures Juul and other companies have taken, to reduce teenage purchase of these products.

(base-to-base time, distance covered, extension, exit velocity, launch angle, lead distance, pitch velocity, pop time, spin rate, barrels, catch probability, expected batting average, expected weighted on-base average, hit probability, and sprint speed. The Statcast system allows for people to truly see how a player plays the game of baseball.

The system of having in depth statistics of baseball players does not just exist in the Major Leagues, it exists for high school players around the world as well. The Perfect Game Baseball organization looks to improve amateur baseball players and promote them to college and professional scouts. Perfect Game hosts numerous events such as showcases for high school and middle school players to get them exposure to these scouts. In order to get a close analysis on the player, a system similar to Statcast called Diamond Kinetics is used. It tracks a player’s exit velocity, barrel speed, barrel acceleration and much more. This engages scouts and makes them want to follow a player they are impressed with.

As proven through the countless changes made to how baseball is tracked and analyzed, Major League Baseball has come a long way since Hy Turkin and his encyclopedia. Statcast has forever changed the way statistics are viewed and strengthens the bond between baseball and the ever-changing sciences.)
Baseball has always been a statistical driven sport. Statistics were first accessible to the world when Hy Turkin released *The Complete Encyclopedia of Baseball* in 1951. This encyclopedia included basic statistics of players such as batting average, runs and runs scored. There were many encyclopedias published after this that incorporated different statistics. The most well known statistics that were recorded after Turkin’s release were earned run average, runs batted in, and strikeouts. In present time, the most notable statistics for position players in Major League Baseball are batting average, runs batted in, and home runs. If a player leads these statistics in all of the league at the end of the season, they are then awarded the Triple Crown Award. The last winner of the Triple Crown Award was Miguel Cabrera of the Detroit Tigers in 2012. Unlike the Cy Young and Most Valuable Player awards, the Triple Crown is not awarded each year. Statistics in baseball translate to how a player is perceived and their recognition by others.

The most recent change to statistics in baseball is the use of Statcast. Statcast is a technology used to give an in depth analysis of every little piece of data in a baseball game. It has improved the game greatly and it gives scouts more to discuss and look for in a player. Statcast’s tracking system was inputted into all 30 MLB ballparks in 2015. Statcast includes two different tracking systems: a Trackman Doppler radar and high definition Chyron Hego cameras. The radar is located behind home plate at a high elevation. This system is responsible for pitch speed, spin rate, exit velocity, launch angle, batted ball distance and many more. The Chyron Hego cameras are located on each foul line with three cameras at each. This system involves the movements of players on the field during each play. The available data that Statcast provides is arm strength,
When we were growing up, all throughout elementary school and onward we learned about the terrifying “Black Death” that swept through Europe during the late 1300s and decimated about a third of their population. The Bubonic Plague was a deadly force that tore apart Europe, but not as many people know about the effects, of a more recent pandemic and its 100 year anniversary is upon us.

The Influenza Pandemic of 1918 swept the world into a frenzy against what seemed to be an unstoppable force. About 500 million people, or \( \frac{1}{3} \) of the world’s population at the time, were affected by this strain of influenza. This sickness had global impact worldwide, with 50 million deaths, 675,000 occurring in the United States alone. The CDC reports that between 1917 and 1918, the average American life expectancy dropped by about 12 years, to 36.6 years for men and 42.2 years for women. High death rates were prevalent between people of 20-40 years of age, which is unusual because influenza usually affects the very young and very old the most.

At the time, World War I was ravaging Europe. Close quarters in military camps and large troops traveling together promoted the spread of disease. In the United States, reports of illness in the camps was underreported to prevent a decline in public morale. This pandemic is often referred to as the “Spanish Flu” not because the virus hailed from Spain, but because they remained neutral during the war and could report on the status of the pandemic without worrying about the state of their own nation’s sentiments. This first wave of the flu hit in spring 1918; the illness was not as aggressive as the second and third waves would prove.

The second wave of the outbreak began in September 1918 at Camp Devens, an Army training camp near Boston, Massachusetts. In the month of October alone, over 100,000 Americans died. The final wave began in early 1919, and ended in summer 1919. Later research has specifically blamed the H1N1 virus for the horrors of the Spanish Flu. This virus is also responsible for the recent 2009 swine flu pandemic. The virus is sourced from pigs, hence the name the “swine flu”.

At the time, limited safety precautions were considered to be standard practice. In fact, viruses hadn’t even been discovered yet. No laboratory work could have been done to detect the source of the flu. There were no vaccines to prevent the spread of the disease, no antiviral drugs to treat the illness, and no antibiotics to treat side-effects of the flu, like pneumonia. Rather, non-pharmaceutical methods were encouraged, like practicing good personal hygiene, quarantine, and closures of large public settings to prevent further interactions and spread of the disease. Some cities enforced the use of face masks in public, and New York City even had a law that fined or jailed people for not covering their coughs.

In the wake of the Spanish Flu outbreak, steps have been taken to prevent another pandemic like this again. Nations have joined forces to develop a global influenza surveillance system that consists of 114 World Health Organization member states. Advancements made in science and technology aid these efforts as well. The creations of flu vaccinations and antibiotics are essential to defending the public against another outbreak. Tools like ventilators, intensive care units, and protective measures like gloves, gowns, and masks are considered standard when treating any patient now. Ongoing research is being done to ensure that humans will be as prepared as possible when another outbreak hits. Until then, efforts are being made to better how quickly vaccines can be made and distributed globally. Worldwide efforts combine to protect the public against the terrifying possibilities that disease brings to light.