

THE BASIS SCOTTSDALE GAZETTE

SCIENCE NATIONAL HONOR SOCIETY

BY JAYATI SHARMA

This school year heralds the development and continuation of a variety of honor societies, both new and old. From NHS to Art to French to Spanish Honor Societies, BASIS students and staff have seemingly left no stone unturned in involving their peers in a spectrum of service activities.

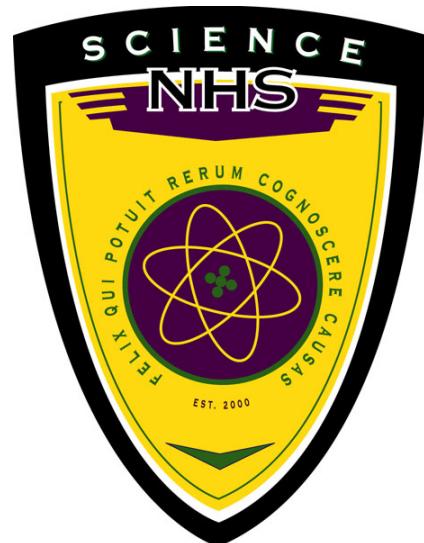
Here to join the list of BASIS Scottsdale's Honor Societies is the school's chapter of the Science National Honor Society, whose aim is to encourage scientific thought and communication within the scientific community, through volunteerism and service projects directed towards increasing public awareness of the state of affairs in the local and global field of science.

The overarching purpose of the BASIS Scottsdale chapter of the Science National Honor Society (SNHS) is to advance students' conscious involvement within the school's science community beyond the classroom. The activities organized by the society will offer students the opportunity to substantiate the academic knowledge they receive from the BASIS Curriculum with activities geared at providing them with real-world experiences in the field of science.

SNHS plans to be involved in the organization of the BASIS Scottsdale Science fair, the maintenance the school's Monarch Waystation, and inviting guest speakers in the science field to speak to both Upper and Lower School students alike about recent and upcoming

developments in their field of study. The society is also looking into avenues to host the schools' first-ever Hackathon among other science-related events.

Though only in its first year of operation, SNHS aims to organize a variety of events to connect BASIS students to the scientific scene throughout the community.



SAVE THE DATE

November 14:
BASIS Drama Department
Productions

November 20-21:
Fall Concert

November 21:
Fall Carnival

December 5:
Red Cross-Sponsored
Blood Drive

FEATURED

ELECTION 2016

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PATRIOTIC VOICES

BASIS Scottsdale's a capella group, The Accidentals, will be featured on KOOL 94.5 FM each weekday from November 16-22 during the Noon Salute hour. The radio station chose The Accidentals' recording of "The Star-Spangled Banner" from among the submissions of local schools.

Three schools are featured every month. Under the leadership of Ms. Carbone and through the recording efforts of Mr. Hathaway, the Accidentals voiced their patriotism by performing our national anthem. Please tune in and enjoy.



The BASIS Scottsdale a capella group, led by Ms. Carbone (right), will be featured on the Noon Salute hour on KOOL 94.5 FM.

A SEASON OF GIVING

With the coming of the holiday season, opportunities for giving abound. What better way to celebrate the spirit of generosity than by participating in BASIS Scottsdale's Red Cross-sponsored Blood Drive?

The drive will be held Saturday, December 5th from 8:30 a.m. to 1:30 p.m. in the school gym.

Before signing up, donors must check their eligibility. As a rule, students aged 16 and older must satisfy certain height and weight requirements, have

BY JAYATI SHARMA

parental permission to give blood, and turn in a form (talk to Sra. Slebos for more details).

To sign up, visit www.redcross.org/blood and search for BASIS Scottsdale (or use zip code 85259), make an account, and schedule an appointment.

This is only one of two blood drives that the Red Cross club is organizing this year, so be sure to participate and give as you can. Happy Giving!

THE SWITCH

Leaving your home is hard enough; just imagine moving to a different country, plunging yourself into a new culture and language with novel sights and sounds. That is exactly what BASIS Scottsdale foreign exchange students Giorgia Bertolinaa, Jeesung Kim, and Sandra Li did, all for the sake of cultural immersion. After numerous tests and evaluations, the three students traveled to the United States—some for the first time—and settled down in Arizona.

Q- Giorgia, Jeesung, and Sandra, where are you from?

Giorgia- I am from Genova, Italy.

Jee-sung- I'm from Hong Xu, South Korea.

Sandra- I'm from Guangzhou, China.

Q- What is your favorite and least favorite part of BASIS Scottsdale so far?

Giorgia- My favorite has to be my friends, and my least favorite is math class. Also the hallways, they're really crowded.

Jeesung- My favorite is the discourse, interaction, and debate between the teachers and students. My least favorite is that the school is really small.

Sandra- My favorite is that BASIS is a small school, so we have a really good relationship with the teachers. When I was back in China it was a very large school, with over 5,000 people. My least favorite is the lunch periods, because we have to bring lunch from home. China's lunch periods have hot lunch every single day.

Q- What is the hardest subject at BASIS, and who is your favorite teacher?

Giorgia- The hardest subject would be math, for sure. My favorite teacher is Dr. Helmers. He's really funny.

Jeesung- The hardest subject for me is AP U.S. History, and my favorite teacher is Mr. Atkinson.

Sandra- My hardest subjects in BASIS are Honors Language and Honors Literature because I don't really do these types of things in China. My favorite teacher is Dr. Scaling, because she is really kind and friendly, and I enjoy chemistry.

BY ANUKA UPADHYE

Q- If you could tell America one interesting thing about the culture of your country, then what would it be?

Giorgia- Definitely that food is amazing. *Everything* is good about the food: the pizza, the pasta. I would tell the American Italian restaurants that they stink.

Jeesung- I really admire the use of public transportation in Korea; I wish there was better facilities here.

Sandra- Here, boys and girls have very close relationships with each other, but back in China the teachers enforce that boys and girls should not interact in school. If you are caught talking with a specific boy a lot, the teacher will keep an eye on you and even talk to your parents.

Q- What has been your strangest or funniest experience in America so far?

Giorgia- The boys. But they're weird everywhere. I also really like the landscape of America.

Jeesung- Last year, after finishing my international student orientation, I was flying out of New York to Virginia. I was awful at English. I didn't realize that the announcer was calling my name for boarding time, because I didn't realize that the flight was boarding. I was just aimlessly sitting on the chair, and I could have missed the flight.

Sandra- The funniest thing over in America is how you can make jokes or laugh about anything. Sometimes I don't really understand what you all are talking about, but I'm always curious to ask.

Q- How do people in your country who have never been to America imagine it?

Giorgia- They think it's like the movies. A big, generic city with underground (subway) in it.

Jeesung- They think every American possesses a gun or weapon, and they think everywhere in America is city, but it's actually different.

Sandra- For example, my parents, who have never been to America, think that everything here is a busy, bustling city. But not everything is! America's entire stereotype comes from the East

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Q- What do you miss most about your country?

Giorgia- The food. And also my family.

Jeesung- Korean food. And my family too.

Sandra- The food! I've never had American food for a long amount of time.

Coast like New York, Washington D.C., and Boston, but it's not like that everywhere.

Jeesung- I like American Chinese food. It's Americanized, but it's different, and I like the different flavors.

Sandra- I don't what it's called, but it's a soup with onions. Oh yeah! French onion soup. My host family makes it all the time, and it's very delicious.

Q- If you could describe America in three words, then what would they be?

Giorgia- Big, hot, and full of adventure.

Jeesung- Active, full of opportunity, and pizza.

Sandra- Busy, diverse, and developed.

Q- What's your favorite American food that you never had tried before?

Giorgia- Hamburgers. And Oreos.



Welcome (left to right) Giorgia Bertolinaa, Jeesung Kim, and Sandra Li

NEWS

AND INTERNET FOR ALL

BY LAUREN APPEL

For more than half of the world's people, Internet access promises something more substantial than cat videos or Kardashian gossip.

In fact, the next time someone chides you that Facebook is a waste of time, you can shoot back that the Internet is "an enabler of human rights" and a "force for peace"—at least according to Facebook CEO Mark Zuckerberg's speech at the 70th Session of the United Nations General Assembly on September 26, 2015. With his universal connectivity crusade, Zuckerberg intends to alleviate world poverty.

Announcing his mission to bring the Internet to the whole world and to partner with the United Nations (UN) to provide Internet service to refugee camps, Zuckerberg emphasized that connectivity is crucial to achieve the seventeen Sustainable Development Goals recently adopted by the UN, according to *CNN Money*. Specifically, the UN, through Goal 9, commits itself to augment access to information and communications technology (ICT) and to provide universal and affordable Internet service in the least developed countries by 2020.

In a keynote address, Zuckerberg encouraged leaders of government and business at the UN Private Sector Forum to foster support for universal Internet coverage as a means to eradicate extreme poverty by 2030. Working with the UN High Commissioner for Refugees, Zuckerberg spoke at a UN luncheon to pitch his plan that Internet access will allow refugees to better find and receive aid and to keep in touch with family, according to *NBC News*.

In a Facebook post before his speech, *CNN Money* reports that Zuckerberg shared his dream to make universal Internet connectivity a "global priority" so that "by giving people access to the tools, knowledge, and opportunities of the Internet, we can give a voice to the voiceless and power to the powerless."

On the same day as Zuckerberg's UN speech, *The New York Times* published an editorial entitled "To Unite the Earth, Connect It," co-authored by Zuckerberg and U2

lead singer Bono to unveil their "Connectivity Declaration." As part of Bono's antipoverty, non-profit ONE Foundation, the proposal highlights that Internet connectivity is the key to realizing sustainable development in developing nations. To do this, the editorial urges governments to extend electricity and Internet access and calls upon Silicon Valley to take on more responsibility to alleviate the plight of the impoverished, especially "those beyond or on the edge of the network."

Conceding that there is "no simple solution or silicon bullet," the editorial stresses the link between "global development and global connectivity."

Signatories to the Declaration, according to *International Business Times*, include Microsoft founder Bill Gates, physicist Stephen Hawking, entrepreneur Richard Branson, Wikipedia co-founder Jimmy Wales, and editor Arianna Huffington.

Aspiring to be a global leader in connecting the world, Zuckerberg told the UN that universal Internet access is "one of the fundamental challenges of our generation," as reported by *CNN Money*.

While approximately one billion people use Facebook, much of the world lacks Internet access. According to World Bank data, almost five billion of the earth's population of seven billion people does not have Internet access, with the lowest rates in Eritrea (0.8 percent connected), Timor-Leste (0.9 percent connected), and Myanmar (1.1 percent connected). For comparison, 19 percent lack Internet access in the United States, according to *CNN Money*. A 2015 UN Broadband Commission report documents that 57 percent of the world remain unconnected, including 90 percent of the 48 poorest countries. At the other end of the connectivity spectrum, the Republic of Korea enjoys the world's highest household broadband access at 98.5 percent, followed by Qatar (98 percent) and Saudi Arabia (94 percent).

The UN recognizes that the digital divide must be

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bridged in order to realize the ambitious Sustainable Development Goals of the 2030 Agenda.

In this regard, UN Secretary-General Ban Ki-Moon addressed the critical role played by data in his Solution Summit, according to a UN press release, stressing that decision-making depends on data, but “whole groups of people are not being counted,” because they are not connected. Cellular phones and computers can provide that data.

Speaking at the UN, Zuckerberg characterized connectivity as a human right—a position he first proposed in 2013 with the launch of his initiative, Internet.org. Recently rebranded as Free Basics on September 24, this free mobile app offers websites and services to introduce users to the Internet by providing limited access to selected sites and services. Working with local mobile phone providers, Facebook targets people in remote developing areas. However, *The New York Times* reports that opponents have denounced Internet.org because its ‘walled garden model’ violates Net neutrality (the belief that all Internet sites and services must be equally accessible).

To further implement Zuckerberg’s far-reaching goals, Facebook is building drones to send Wi-Fi connections to places lacking access. One such drone—as large as an airplane and powered by solar energy—stood on prominent display in the courtyard of the UN General Assembly building, according to *The New York Times*. *The Times* also reported that other tech companies are following a similar path: Google is developing high-altitude balloons equipped with radio antennae to connect areas lacking Internet access.

THE IMMIGRATION DEBATE

Immigration is one of the most talked about issues on the campaign trail. The five key questions are facing politicians are the following:

- 1. What should be done about the undocumented immigrants in the United States?**

The Immigration and Nationality Act gives the

Already investing more than one billion dollars in his connectivity initiative, Zuckerberg believes that mobile is the key to success of his strategy, according to *CNN Money*.

Confronting his critics who question his profit motives, *The New York Times* reported that Zuckerberg conceded, “It’s not all altruism,” while adding, “We all benefit when we are more connected.”

However, he asserted that money is not his main motivation: “If we really just wanted to focus on making money, the first billion people who are already on Facebook have way more money than the next five or six billion people combined,” according to *CNN Money*.

ICTs provide quick and effective delivery of information to the poor in non-urban areas, allowing governments to quickly respond to the health and agricultural information it collects. In his editorial, Zuckerberg related how even the most basic Internet access through cell phones dramatically changes lives: farmers in Africa check crop prices, women in Kenya access microfinance services, and mothers in Guatemala learn about healthy pregnancies.

Zuckerberg posted that one person escapes poverty for every ten people who connect to the Internet. At the UN, according to *CNET*, Zuckerberg claimed that 140 million new jobs would result from increased Internet access.

Zuckerberg summed up his zealous endeavor to advance the Internet as a driver of social and economic development: “A like or a post won’t stop a tank or a bullet, but when people are connected, we have the chance to build a common global community with a shared understanding.”

BY BRIAN GLUCKSMAN

federal government authority to deport all undocumented immigrants, but currently only felons are being deported. Many Democrats are calling for amnesty for all undocumented immigrants in the United States, allowing them to stay indefinitely. In stark contrast, the most conservative Republicans are calling for more deportations, some even proposing the deportation of all undocumented immigrants. The more moderate Republicans argue that certain groups of skilled immigrants should be able to earn residency.

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2. Should there be a pathway to citizenship?

A pathway to citizenship would be a process by which an undocumented immigrant could earn citizenship. The partisan split is very sharp. Almost every Republican says undocumented immigrants should not be able to become citizens. Most Democrats firmly believe in a path to citizenship.

3. What should be done about sanctuary cities?

Sanctuary cities are cities that do not enforce current immigration laws and do not cooperate with the agency responsible for deportations—the United States Immigration and Customs Enforcement (ICE). Some notable sanctuary cities are New York City, San Francisco, Chicago, and Houston. Many Democrats would like to make sanctuary cities irrelevant by stopping most deportations even though many Liberals would like to defund sanctuary cities. Republicans want to stop all federal funding to sanctuary cities to make them enforce federal law.

4. Are the children of undocumented immigrants born in the states United States citizens?

This is a constitutional question. The Supreme Court case *United States v. Wong Kim Ark (1898)* interpreted the Fourteenth Amendment to guarantee birthright citizenship (citizenship to anyone born in America). The majority of both parties believe in birthright citizenship. However, some on the far right believe that birthright citizenship should be challenged in courts and in the legislatures.

5. How should the United States secure the border?

Both parties agree that the Mexican border needs to be secured; disagreement arises over how much the country should spend. Many Republicans have shown interest in building a wall and using monitoring drones on the southern border. Other members of the GOP have sided with Democrats in arguing for maintaining a system almost identical to the status quo.

Candidate Profiles:

Republicans:

Jeb Bush

- Supports eliminating sanctuary cities
- Supports legal residency for undocumented immigrants
- Has not ruled out pathway to citizenship
- Opposes deportation of all undocumented immigrants

Ben Carson

- Opposes pathway to citizenship

Ted Cruz

- Opposes the funding of sanctuary cities
- Opposes path to citizenship
- Supports building a wall
- Opposes amnesty

Carly Fiorina

- Supports birthright citizenship
- Opposes amnesty
- Opposes continuing to fund sanctuary cities

Rand Paul

- Supports legal residency
- Supports pathway to citizenship (after initially opposing it)
- Opposes amnesty

Marco Rubio

- Supports securing border before addressing amnesty

Donald Trump

- Opposes birthright citizenship
- Supports building border fence
- Opposes pathway to citizenship

Democrats:

Hilary Clinton

- Opposes building a border fence
- Supports pathway to citizenship
- Voted to continue funding sanctuary cities

Bernie Sanders

- Opposes border fence
- Opposes legal residency
- Voted to continue funding sanctuary cities

THUMBS UP FOR THE THUMBS DOWN BUTTON?

Your best friend posts on Facebook today announcing the passing of the old family dog. You find yourself in a perplexing situation: do you like the post or not? Would pressing the “Like” button mean liking the tragic event itself?

Facing this problem for a long while, users have consistently urged Facebook to provide a solution to their crisis. Many suggested the addition of a “Dislike” button. However, numerous opponents pointed out several complications to this proposed solution. Mark Zuckerberg himself acknowledged such potential difficulties in his response to the question at a Q&A event at Facebook’s headquarters. He addressed the possibility of a dislike button feeding controversy:

“We don’t want to turn Facebook into a forum where people are voting up or down on people’s posts.”

In addition, parents and other concerned individuals anticipate a facilitated ground for cyberbullying. Tracy Beckerman, a columnist and mother of a victim of bullying on Facebook, dismisses the idea completely and indicates that there are already enough opportunities for children to bully each other without a dislike button. Numerous other parents raised similar objections.

However, these drawbacks did not stop Facebook users from searching for a new way to express an emotion other than contentment. Mark Zuckerberg explains his clients’ interest and demonstrates his own understanding of their concern: “But your friends want to be able to express that they understand and relate to you, so I do think it’s important to give people more options than just ‘like’ as a quick way to emote and share what they’re feeling on a post.”

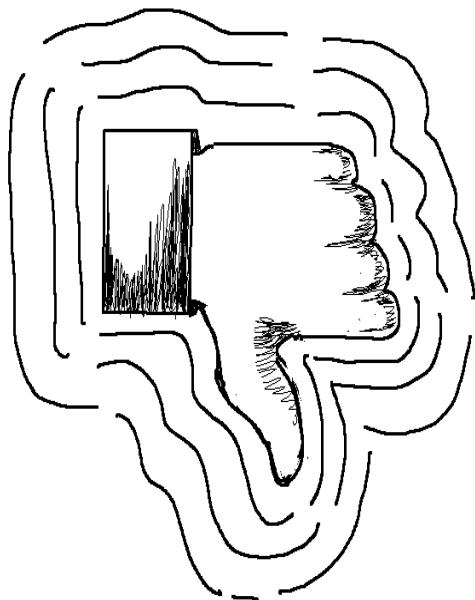
But the real question arises: how can we do this without directly provoking hatred or disagreement to any post? According to Workforce Innovation in Regional Economic Development (WIRED), Facebook has found a solution, and has already begun to test several emoticons that will serve to convey emotions other than “like.” The new icons include responses such as “Haha,” “Yay,” “Wow,” “Sad,” “Angry,” and “Love.”

These buttons allow users to demonstrate their

BY BAILEY
MIRABELLI

feelings without providing fresh fodder to bullies and others intending to incite disapproval or anger. This new update enables users to express myriad feelings without having the option to completely rejecting a post with a straight thumbs-down. *Bloomberg News* registered their approval of the resolution and even went further to recognize the problems that a dislike button would present that these individual buttons would not. A dislike button, they said, may “inject negativity into a social network fueled by baby photos and videos of corgis waddling at the beach.” This array of different expressions, however, did not directly encourage negativity.

As a matter of fact, Facebook’s data statistically proves that the most used emoji of all is the “Love” button.



WOMEN TO WATCH

The November 2016 Presidential election promises to be interesting with not one but two female candidates: Republican Carly Fiorina and Democrat Hillary Clinton. Below are brief backgrounds and key points about both political candidates.

With her former positions as first lady, U.S. senator, and U.S. secretary of state, Hillary Clinton is not a newcomer to the political spotlight. Her platform centers on improving life for middle-class America. Three avenues in which she hopes to accomplish her vision are clean energy, affordable college education, and economic growth. In order to make America a leading nation for renewable energy, Clinton plans to facilitate the installation of over a half-billion solar panels during her first term and to produce enough renewable energy to power every U.S. home within ten years of her first term.

To ensure affordable college education, Clinton's New College Compact promises that students can be debt-free after four years at a public university; funding for the plan comes from family contribution, student contribution from working ten hours a week, and tax revenue from high-income tax brackets. Lastly, Clinton will tackle economic growth by raising the minimum wage to \$12 an hour and promoting investment in infrastructure and scientific research.

Carly Fiorina was Hewlett-Packard's CEO--the first woman to take control of a Fortune 100 company. For five years, *Fortune* crowned Fiorina the "Most Powerful Woman in American Business." However, over the past decade, she has shifted her career toward politics, hoping to use her business background during her presidential candidacy.

Fiorina focuses on global warming innovation, high school restructuring, and less economic regulation to create prosperous lives for all Americans. While she believes that climate change is a reality--unlike some of her competitors--Fiorina also believes the issue is beyond the U.S. government's control. She states that, because of coal markets such as those in China, the United States alone cannot stop the impact of climate change. She proposes innovating clean coal technology to combat global warming without burdening economic growth.

Regarding education, Fiorina believes that free community college will not solve the issue of failing high schools. She intends to make high schools more

BY VICTORIA MEYER
AND ZOË MHUNGU

competitive so parents have options in deciding which school their children will attend. Finally, fixing the economy is Fiorina's main objective. She strongly supports decreasing taxes overall, not just for one group of individuals, to ensure economic growth for all. She also asserts that the minimum wage should be decided on a state basis because economic conditions vary from state to state.

Regardless of whether or not one supports either of these candidates, it is groundbreaking to have two female contenders in this historically male-dominated election.



Hillary Clinton (D)
Photo Credit: United Association



Carly Fiorina (R)
Photo Credit: Wahsington Times

ON VETERAN'S DAY

On November 11, if you see a veteran, then take a minute out of your day and make sure to thank them for all that they have done to keep our country free.

Here are five facts about Veterans Day:

1. There are over 19.6 million veterans currently residing in the US.
2. It was originally called Armistice Day by Woodrow Wilson at the end of World War I.
3. Only around 855,000 veterans of the 16 million who served in World War II are alive today.

BY CATHERINE O'NEILL

4. November 11 is the anniversary of the end of World War I.
5. The National Ceremony in Washington D.C. starts at 11 a.m. when a wreath is placed at the base of the Tomb of the Unknown Soldier and then is moved to the Memorial Amphitheater, where a parade of colors and speeches take place.



Photo Credit: US Embassy

COHEN'S COMPLAINTS

THANKSGIVING ME A HEADACHE

BY ALEX COHEN

Thanksgiving is a storyteller's dream holiday: throughout its rich history, there have been several key moments that – for better or worse – have made the holiday what it is today. Who could forget the made-up story about the time White people failed to grow corn and took advantage of kindly Native Americans whom they would later violently displace from sacred land? Or, in 2012, when Jets quarterback Mark Sanchez ran into someone's rear end, fumbled the ball, and proceeded to lose the game? How about the eleven-year-old child sent to the hospital when early Black Friday Shoppers at Wal-Mart trampled him in 2013? Regardless of what your personal favorite Thanksgiving story is, I'm sure that the central lesson is the same in all of them: people are greedy, gluttonous, and only care about their own well-beings.

My only issue is this: why, on a holiday so devoted to the positive advancement of selfish goals, are people forced to spend time with their families?

Regardless of what you call them, you can be assured that your grandmother and grandfather will show up for Thanksgiving dinner. In my house, this can mean that I will be treated to my grandfather's wild gestures and colorful language as he rambles about the decay of modern America, but it can also mean that I will spend the night talking to my grandmother about why today's music actually *does* have value (see Jayden's Jams). Still, grandparents only touch the tip of the Thanksgiving family iceberg; you also have your gluten-free-sugar-free-oxygen-free aunt and her husband, your cousins who only talk about *their* school and *their* hometown, and the family member you only associate with on Thanksgiving to clear your conscience.

Having family over isn't inherently a bad thing, however; on any normal day, you can lose yourself in television, video games, or "BASIS homework" and avoid talking to them altogether. Thanksgiving is a little different in that it forces you to talk to them. If you try to lose yourself in binge eating, you win in the short term, but you

lose in the long term, kept in your seat by the sheer weight of food you've just consumed.

Oh, and that reminds me, the food on Thanksgiving is a *sin*.

Just think about it for a second. It's Thanksgiving night, and your mother brings in a delicious, succulent turkey. She elegantly carves the turkey onto your plate, and you are soon lost in the combination of the fragrant turkey seasonings, the piquant or savory stuffing piled onto your plate in mountains, and the rivers of rich, thick gravy that tie it all together. You're about to take a bite. You close your mouth around the juicy bird and its accouterments. Mmm. Yummy. Except – what's this? Oh. It's A BIRD FEATHER BECAUSE THANKSGIVING REVOLVES AROUND THE SYSTEMATIC BEHEADING OF INNOCENT TURKEYS, MAJESTIC ANIMALS THAT BEN FRANKLIN WANTED TO MAKE OUR NATIONAL BIRD. THE GRAVY HAS DEVELOPED A THIN SKIN, AND THE STUFFING ONLY TASTES LIKE TURKEY BECAUSE OF THE VILE PLACE IN WHICH IT WAS COOKED. OH, AND THE RIDGES ON THE CANNED CRANBERRY SAUCE LOOK **REALLY** NATURAL AND TASTY.

Despite the food, family, and underlying selfishness that Thanksgiving promotes, there are two positives that come out of it. First, some saintly people choose to donate food to others, spreading the cheer and promoting the togetherness that Thanksgiving is ostensibly rooted in. Second – and more importantly – Black Friday is the next day. Just be careful not to trample any kids this year.

Other than that, there isn't much to complain about.

SCIENCE & TECH

MARS: SCIENCE'S MOST ELUSIVE QUESTION

It has become a popular notion that Mars may potentially serve as a home for mankind in the future. NASA has sent probes and robots to the Red Planet to determine if it can sustain life. This pursuit has been driven largely by the search for water.

Interestingly, the exploration for water on Mars partly began because of a mistranslation from Italian to English. In 1877, astronomer Giovani Schiaparelli wrote down his observations of the planet's surface, noting that it had streaks on its surface. He called these streaks *canali*, which translates to "channels." The word was accidentally taken to mean 'canal,' as in the Panama Canal. This sparked the hypotheses that Mars indeed had water on its surface.

This past month, NASA's efforts proved this century-long fascination true. Its Mars Reconnaissance Orbiter (MRO) recently used an imaging spectrometer to determine that Mars currently does have flowing liquid water on its surface. The MRO's findings confirm the presence of mysterious streaks that travel downhill on the Red Planet's mountainous surface. Furthermore, hydrated salts found near these streaks held similar properties as rocks near water sources on Earth.

NASA's breakthrough discovery reopened some older theories that never gained popularity. An interesting theory that has come back to the spotlight is the "panspermia" theory. A Greek word, "panspermia" means "life everywhere." The theory formed to answer gaps in Darwin's theory of evolution and the age of Earth. Darwin's idea of the Earth's age was too short to support his notion of how long the evolution of humans must have taken. As our planet's actual age was determined to support the theory of evolution, "panspermia" died down.

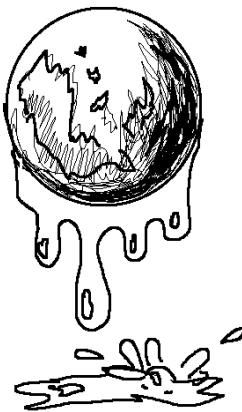
However, the discovery of water on Mars is a turning point for many scientists to now believe that the Red Planet has many indicators that point to life on Mars predating the Earth. As chemist Steven Benner – founder

BY DIVYA VATSA

of the Westheimer Institute at the Foundation for Applied Molecular Evolution – claimed that Mars's early atmosphere could very well have held oxygen and lakes and could have supported bits of RNA. According to advocates of "panspermia," the life on Mars could have then travelled to Earth via a meteor.

While this theory remains ambiguous, the discovery of water on Mars has opened the doors for greater examination of the Red Planet. As Bill Mesler, co-author of *A Brief History of Creation: Science and the Search for the Origin of Life* stated, "[A]s we continue to hunt for Martians on Mars, perhaps we should consider the possibility that we've already found them — and that they are us."

THE RED (AND WET) PLANET



ENVYING ELEPHANTS

BY NITYA AGGARWAL

Cancer affects about one in four humans, making it a problem scientists are desperate to solve. But for elephants, cancer is not much of an issue. Elephants possess an effective means of protecting themselves against cancer, an ability researchers wanted to understand.

Essentially, animals grow through cell division. Large animals, like elephants, grow much more than small animals, like mice. Therefore, a smaller animal experiences less cell division than a bigger animal.

Cancer, on the other hand, is caused by uncontrollable cell division. Consequently, animals like elephants must contract cancer more often than smaller animals, like mice or humans, merely because the chances of uncontrollable cell division are higher.

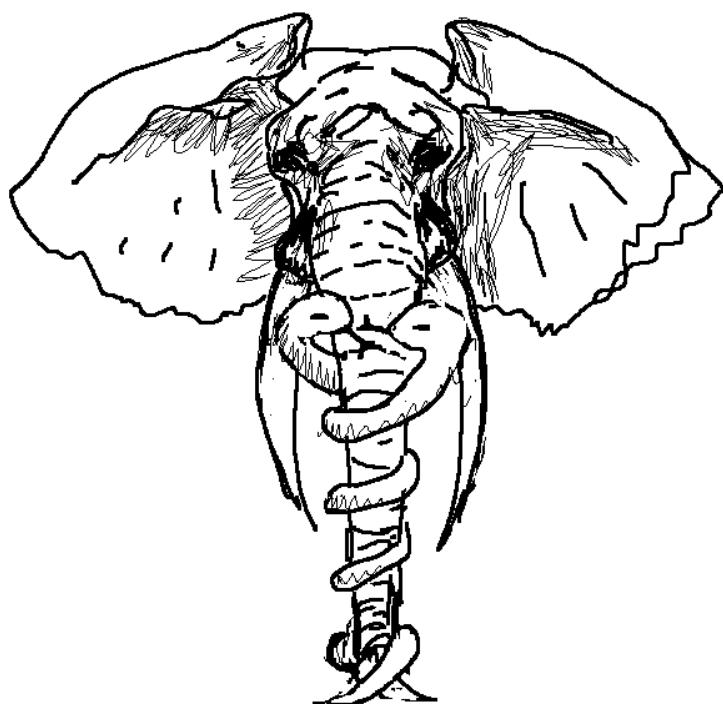
But, in a phenomenon called Peto's Paradox, only one in twenty elephants contract cancer, and mice get cancer just as often as humans. In addition, Dr. Joshua Schiffman of the University of Utah discovered that all baby elephants should be dying of colon cancer at the age of three because of the high risk of cancer. Since elephants live past the age of three, several scientists have speculated that large animals with long life spans must have evolved cancer-fighting mechanisms or they would be extinct.

To investigate this attribute, scientists looked at one particular gene called p53. The protein encoded by this gene basically overlooks cellular division. In some cases, p53 keeps cells from dividing more; in other cases, p53 even makes faulty cells commit suicide.

Humans only have one pair of this gene, or two copies. Elephants, scientists learned, have 20 pairs, or 40 copies.

For the purpose of testing the effectiveness of extra copies of p53, researchers bombarded elephant cells with things known to cause cancer, including radiation and ultraviolet rays. In each case, the affected elephant cells killed themselves instead of trying to repair the damage, an efficient and effective way of blocking cancer.

P53 proved itself very useful to elephants, making researchers hopeful for a possible cure. However, experiments found that while p53 prevents cancer in elephants, mice given extra amounts of p53 also aged faster, which is not exactly a minor side effect. While scientists are sure to experiment with p53, a cure for cancer still dangles out of the reach of scientists.



FOOD

QUICK EATS

It might seem as if BASIS Scottsdale is a deserted, secluded building in some weird twilight zone between Desert Mountain High School and Fountain Hills, and, well, that isn't completely wrong. But in case you ever forget a lunch and need somewhere to eat within a reasonable distance, here is a list to meet all your needs (time, cost, and quality) that – hopefully—will inspire your next meal. Browse the following categories of food options to plan your next outing.

The “Caffeine Fix”:

It's 7 a.m. and you need something to revitalize you after last night's paltry three hours of sleep snuck in while writing the paper due today and studying for the day's two tests. I got your back. These three coffee shops are all eight minutes away from BASIS Scottsdale and meet different tastes: Haggens' Starbucks (caution: closes November 14th), Kona Coffee (a must) and Dunkin Donuts (a classic). While the first two have a limited range of breakfast foods, they have a wide variety of caffeine fixes. However, they are also the more expensive options. So if all you have is a dollar thirty five, then I suggest getting coffee from Dunkin Donuts—sometimes, cheaper is better.

Cost (coffee only): \$

Quality: 8/10 (failing to score the last two points because they are not your cozy, sit-down coffee shops).

The “30 minutes until lunch is over and I need something to munch on”:

McDonald's, Arby's, Taco Bell, and Dairy Queen are all within an eight-minute one-way drive (using either Via Linda or Shea), and provide cheap but satisfying meals for just about any craving you might have.

Cost: \$-\$

Quality: 5/10

BY EVE FABRE



The “My friends and I planned a lunch out”:

You actually planned to go out with your friends for once. For the following “Quick-Eats,” allot a 30-minute round trip: Chipotle, AJs, Which Which, Chick-fil-A, and DJ’s Bagels. While these range in menu selections, they also differ in location. While DJ’s Bagels is in Fountain Hills, Chick-fil-a is at Shea and the 101, and the first three are all at the Frank Lloyd Wright Boulevard and Thompson Peak Parkway intersection. Smash Burger on Frank Lloyd Wright is also a great place for burgers, fries, and shakes and is only three minutes further than the trio on Thompson.

Cost: \$-\$

Quality: 9/10

The “I don’t know if I’ll make it back in time, but I might as well try because it’s worth it”:

Slightly higher in food quality than the last categories, these next three are a considerable 17- to 20-minute drive away from BASIS Scottsdale. Raisin’ Canes and Krispy Kreme sit on opposing corners (NE v. SW respectively) of the Scottsdale and Shea intersection, whereas In-N-Out Burger is closer to Frank Lloyd Wright Boulevard and Scottsdale Road (inside the Promenade Plaza). These wildly popular options are somewhat closer than you might have anticipated.

Cost: \$-\$

Quality: 10/10 (definitely would eat there again)

DESSERT, ANYONE?

For all you dessert lovers out there, there is good news! Thanksgiving is arriving quickly, heralding in a procession of pies—which means desserts galore! Here's a mouthwatering list of the top Thanksgiving desserts of 2015:

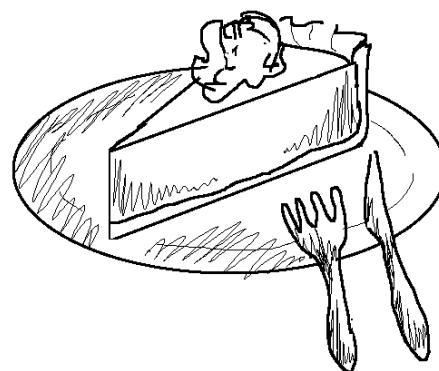
Happy eating!

1. **Key Lime Pie:** Aahhh...the perfect blend of sweet and salty. At Le Grande Orange in Phoenix, you can find key lime pies, baked to tart perfection.
2. **Red Velvet Cupcakes:** Red velvet has achieved cult-like status among dessert aficionados. Tammie Coe Cupcakes are some of the finest. Le Grande Orange also has a pretty decent red velvet cake, but the bitesize cupcakes from Tammie Coe have just the right ratio of cake to frosting.
3. **Lemon Cranberry Pie Bars:** For hipster dessert lovers, lemon cranberry pie bars are the new fad. Sweet yet tangy and easy to make, they are even more delicious to eat.
4. **Salted Caramel Cheesecake:** Although salted caramel cheesecake has been a recent development in the caramel industry, its popularity did not take long to spread everywhere. With a little caramel and maybe a little powdered sugar on top, this cheesecake is the ultimate delicacy.
5. **Macaron Cake:** This is an easy do-it-yourself project. Buy some macarons, and stack them in a pyramid shape. Here in Arizona, you can always get delicious macarons from Essence Bakery. Fun for family, fun for friends!
6. **Butter Pecan Ice Cream Pie:** We all know what is the go-to ice cream place. That's right—Sweet Republic. The Scottsdale ice cream shop switches up their seasonal ice cream pies, but butter pecan is an all-year favorite.
7. **Bundt Cakes:** Bundt Cakes, Bundt Cakes, of course. A classic that never falls out of favor. At Nothing Bundt Cakes, you can buy Bundt cakes of all kinds: red velvet, lemon, vanilla, chocolate. And if that is not enough decadence for you, you can always add a dollop of vanilla ice cream on top!
8. **Bread Pudding:** Another Thanksgiving Classic. A little bread pudding plus some ice cream on top equals bliss. Here in Scottsdale you can always visit The Mission to snack on this customer favorite.

BY ANUKA UPADHYE &
ANYALEE WAHAL

9. **Blueberry Pie:** A little, latticed crust; gooey, sweet filling: that's right, the blueberry pie is back, and maybe to stay for good. At Pie Snob in Phoenix, for those who are a little burnt on the classic blueberry pie, variations such as blueberry lime or even blueberry piña colada reignite the taste buds. Otherwise, plop some old-fashioned vanilla ice cream on the warm pie slice, sit back, and enjoy the delicious ride.
10. **Pumpkin Pie:** With either sighs of relief or disappointed eye-rolls that this classic made it on the list, you know that no list of Thanksgiving pies would be complete without this old standby. The seasonal pumpkin flavor arrives with a bang every year. Enthusiastic bakers have no problem whipping up one of these come November, but for those of us who don't have a cooking 'thumb,' Piefection in Mesa delivers the classic every year. Maybe you're one of those people who aren't a fan of pumpkin pie, but like to follow the tradition. Piefection's mini-pies suit those who know the balance between too much and too little.

Every year, these desserts tempt our taste buds with delectable satisfaction. Grab some silverware and save room for dessert this Thanksgiving. Trust me, after this, I know you will be coming back for our upcoming article, "How to Reverse Holiday Weight Gain."



ARTS & ENTERTAINMENT

PRIZE AND PUNISHMENT

The time of year has arrived once again. The nation's attention turns to football, an all-American sport watched and enjoyed by millions. A part of the American culture, football launched the time-honored tradition of tailgating and the increasingly popular trend of fantasy football. Since kickoff day, football fans have been constantly raving, checking stats, following games, and monitoring the waiver wire. Now, fantasy football reigns as one of the most popular online competitions in America.

Fantasy football leagues range from casual to serious. In many of the serious leagues, competition can grow very intense, heightened by the unpredictable nature of the NFL season. Many of these leagues have prizes for the winners, but there are a few leagues which, rather than prizes, have punishments.

The following is a list of five punishments that have transpired in fantasy football leagues. Hopefully, these ideas can inspire you to come up with other creative methods of punishment for torturing the owner of the worst team in your league:

5. The Renaming

Very easy to enforce, renaming remains quite popular in many fantasy football leagues. This simple punishment gives the winner of the football league the luxury to rename the worst team in the football league for the next season. This often results in many humiliating fantasy team names.

4. The Hijack

This punishment is quite cruel in terms of fantasy football. Here, the loser must accept a trade from the winner for the next fantasy football season. This trade involves only one player and usually exchanges the loser's best player for the winner's worst player. Though it may seem like this dooms the loser to another terrible fantasy football season, the unpredictable nature of fantasy football often renders this untrue.

BY GURSAJAN GILL

3. The Servant(s)

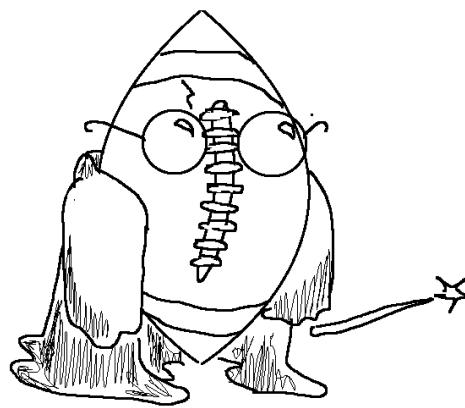
The Servant is a classic. The loser has to follow around the winner and do the winner's bidding. This often takes place over a given period of time and sometimes also can be expanded to where the bottom half of the losing teams has to serve the top half, with the winner getting the first pick out of the loser. Some leagues even go as far as forcing the "servant" to pay for various foods and drinks.

2. The Roulette

The Roulette does not just punish the worst team, it punishes every team that did not win. First, the winner writes down a list of punishments of varying degrees of intensity and pain. Then, the teams get to choose their punishment, but in a particular order. The second-place team chooses first, the third-place team chooses second and so on, until the last place team chooses. The last place team often ends up with the worst, funniest, and most embarrassing punishment.

1. The Public Shaming

Everyone's favorite is the public shaming. The punishment can range from standing next to highway holding a sign and wearing embarrassing clothes to being pelted with tomatoes. Some have taken it so far that the losers must get permanent tattoos. Have fun, be creative, but don't do anything dangerous or illegal.

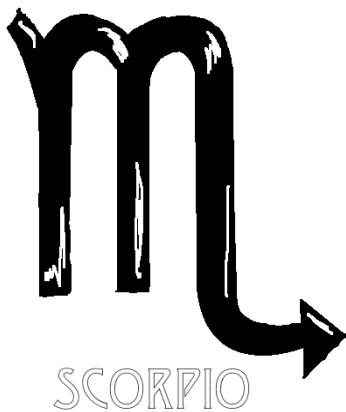


HOROSCOPES

Scorpio

October 24-November 22

Fall is already in full swing—if you haven’t had your first pumpkin spice latte of the season, congratulations! If you’ve already had fifty, then you should probably consult a physician, because that’s probably not healthy.



Sagittarius

November 23-December 21

This is the month to try new things: with the changing of the leaves, roll over your own new leaf. Not that the cacti of Arizona change leaves or anything.

Capricorn

December 22-January 20

Visiting colleges soon? Be sure to be polite, smile, and ask plenty of questions. Oh, and just ignore the tension of the room with all of the other applicants and their uber-competitive parents.

Aquarius

January 21-February 18

Take this time to discover a new love in your life—a food that you might have always passed over, a person who you have never really considered. A facelift for your life can do wonders—without the dangerous complications of an actual facelift!

Pisces

February 19-March 20

You’re in that weird limbo of pumpkin: after the jack-o-lanterns of Halloween but before the pies of Thanksgiving. With all the sad and rotting pumpkins

BY MOLLY ONO

around, maybe do yourself a favor and opt for some decorative gourds—the warts on them are *kind of cool*.

Aries

March 21-April 20

Wisdom teeth are a pain. Hopefully, your parent isn’t cruel enough to tape you hopped up on pain meds, and *then* upload the footage to the Internet.

Taurus

April 21-May 21

So apparently Taylor Swift’s “Bad Blood” is not written about fellow songstress Katy Perry. Hurry, this is a divine sign to break up with your own frenemies before they too throw you under the public bus.

Gemini

May 22-June 21

Stop avoiding the problem and do the darn work—your future self will be getting plenty of sleep because of it. And—who are you kidding?—you need all the sleep you can get.

Cancer

June 22-July 22

Video games sucking all of your time away? League of Legends? Mortal Kombat? Even the beloved Smash Bros.? Just remember to spend time with loved ones: invite them to be pummeled by your almighty digital prowess every once in a while.

Leo

July 23-August 22

This is the time for you to branch out and look for a job. More work, more cash, more experience, more cash...it's basically a win-win.

Virgo

August 23-September 23

College visits can be taxing, so visit the school’s cafeteria to refuel. If the food is crappy, then don’t go to that school. Like, don’t even consider it.

Libra

September 24-October 23

Now is the time to revisit an interest you might have dropped a while ago: keeping a journal, break dancing, eating a diet of only Gushers. Reflect on the inner turmoil of your childhood to bring happiness to the present.

SNIGLETS

Odorlust (oudər last) adj.-having every room of your house filled by the delicious aroma of a cooking Thanksgiving dinner

Turkey trance (tur kí træns) n.-the exhausting food coma induced by several servings of food and too much family socialization

Recoursement (ré coor smínt) n.- the brief period of time after Thanksgiving dinner that allows you to recharge your appetite before the final dessert course

Pumpin pie (pum pin páy)v. – shoving way too much pie in your body

Luquilayer (lí kwí lé ər) n.- a thin film that covers the gravy after it has been sitting out for a while

BY MICKI CALO

Gobblegrub (góbb lə grub) n.- the infamous and seemingly never-ending Thanksgiving leftovers, i.e. turkey sandwiches, turkey casseroles, etc.

Thinksgiving (tɪŋk əs giv ɪŋ) n.-strategy in planning out when to start cooking each dish so they are all served hot and ready at the same time

Tentsaling (tent säl ɪŋ) v.- the act of camping out at two in the morning after Thanksgiving in front stores to get the best deals and steals first

Dishaster (dí sé æst ər) n.-the pile of dishes leftover after Thanksgiving dinner is finally over

PERSONALITY QUIZ

Considering the numerous personality quizzes on the Internet, deciding which ones are worth your time is difficult. Here is one more: a handy personality quiz to find out which personality quiz most fits your personality!

1. Where are you most likely to be found at a house party?

- A. In the backyard.
- B. In an air vent.
- C. In the kitchen.
- D. Way, way, above the house.

2. A friend texts you, asking to hang out. You want to...

- A. Warm up in the sun.
- B. Get in a car chase.
- C. Ketchup on old times.
- D. Float in space.

3. What is your preferred form of exercise?

- A. Running through the woods.
- B. Running from explosions.
- C. Traveling through the large intestine.
- D. Floating in space.

BY TREY CONNELLY

4. What is your dream vacation?

- A. A field or anywhere else with grass.
- B. An assault on the villain's base of operations.
- C. Cheeseburger in Paradise.
- D. A loop around the night sky.

5. You always hate it when...

- A. That one eagle swoops down and eats you.
- B. The feds come in and try to take over your case.
- C. You run out of mustard.
- D. Ophiuchus keeps trying to steal your space.

Results: If you answered mostly...

- A: Which Animal Are You?
- B: Which Action Hero Are You?
- C: Which Sandwich Are You?
- D: Which Constellation Are You?

If you enjoyed this quiz, then check out our other articles, such as "The Top 17.3 Top 10 Lists" and "This One Unbelievable Crazy Fact about Crazy Unbelievable Facts that You Won't Believe!"

JAYDEN'S JAMS

FIVE HIDDEN GEMS

This month, rather than do an in-depth review of a single new album, I decided to look at the overlooked work of five well-known artists. Whether they are precursors to mainstream success, forgotten, or simply underrated, these albums are all worth a listen.

Brand New Eyes – Paramore

Falling between their breakout album *Riot* and recent self-titled album that brought even more fame, Paramore's *Brand New Eyes* is too often forgotten as arguably the band's most intricate and yet cohesive record. Standout singles "The Only Exception" and "Ignorance" are some of the band's most famous songs, but the album as a whole does not get as much respect as it deserves.

From Josh Farro's standout guitar riffs to his brother Zac's unique drumming style to Hayley Williams' powerful yet controlled voice, every moment is filled with multiple places to listen. The band combines a sonic and emotional maturity not present on *Riot* with the versatility of a five-piece band that their self-titled lacks, following the Farro brothers' exit.

Rating: 4.5 stars

Check out: "Feeling Sorry," "Turn it Off"

Humbug – The Arctic Monkeys

When *AM* was released in 2013, The Arctic Monkeys were showered with unprecedented levels of fame and exposure. Their earlier music, however, is too often neglected. Albums like *Humbug* may not have the same distinctive riffs and catchy melodies of *AM*, but they are certainly not far off.

In this album, the band employs powerful intros on multiple occasions, including the first two songs: "My Propeller" and "Crying Lightning." Also notable is their willingness to throw in unexpected rhythms and chords, as well as instrumental breaks and electronic sounds with greater frequency.

Rating: 4 stars

Check out: "Secret Door," "Pretty Visitors"

We are Born – Sia

Sia blew up with her latest album *1000 Forms of Fear*, led by standout tracks "Chandelier" and "Elastic Heart." Less well known, however, are the multiple albums that came before it, dating back to 1997. Sia's second most recent work is *We are Born*, a more

experimental album than her latest one.

In addition to her pop sound, it features more jazzy songs like "Be Good to Me," as well as guitar-based tracks like "Big Girl Little Girl." The lyrical content is also interesting, Sia's distinctive voice is still the focus of the record, and just as powerful as ever.

Rating: 4 stars

Check out: "Never Gonna Leave Me," "I'm Here"

Showbiz – Muse

Before reaching worldwide fames with albums like *The Resistance* and *The 2nd Law*, Muse came out with their first album way back in 1999. The instrumentation is somewhat simpler than their more recent work, and Matthew Bellamy's vocals aren't quite as powerful, but piano-driven "Sunburn" falls right in line with some of the band's best work.

"Muscle Museum" follows with a tantalizing guitar intro and strong bassline, and a mix of loud, strong vocals and smooth falsetto. Like *We are Born*, the album is somewhat experimental and not as cohesive as future work, but it has some gems and it's at the very least fun to see where the band began.

Rating: 3.5 stars

Check out: "Sober," "Cave"

It Won't Be Soon Before Long - Maroon 5

Lumped between *Songs About Jane* and *Hands All Over*, the album that features hit singles "Makes Me Wonder," "Wake Up Call," and "Won't Go Home Without You" has had a fate similar to that of Paramore's *Brand New Eyes*. Its other songs are too often forgotten.

The record is smooth all the way through, from the bouncy guitar riffs of "If I Never See Your Face Again" and "Can't Stop" to the heartfelt piano and strings of "Back at Your Door," the album's closing ballad. The band showcases definite jazz and rock influences, but drifting in a much more pop direction, resulting in an interesting fusion.

Rating: 4 stars

Check out: "Goodnight Goodnight," "Little of Your Time"

YASH-IP GIRL

Dear Yash-ip Girl,

I recently tried out for the Varsity Basketball Team, but I didn't even make Junior Varsity. For some reason, my skills did not translate to the court during tryouts, and other players overshadowed me. I am extremely disappointed because I thought I was good enough to make it since I play at lunch all the time. What should I do?

--TRIED AND FAILED

Dear TRIED,

I know this will be tough to rebound from, but don't get too down on yourself. I'm sure you would've been a steal. There are only 12 spots, and you may have just had an off day. If you care about basketball and want to improve for next year, then definitely talk to the coaches about what aspect of your game you should improve on. They'll assist you. However, I will give you some coaching here on the basketball basics.

Firstly, passing is extremely overrated. If you are unsure about what to do, just throw the ball toward the basket—it'll probably go in. To perfect the release of your shot, maximize horizontal movement, use both hands, and spread your arms out to the side as you follow through. Another basketball fundamental to keep in mind is to always trash-talk. Find something to insult about your opponent, and go on and on about it. Finally, just keep saying the word "ball" and its derivatives, like "baller" and "ballin'" (never pronounce the 'g'). Eventually, people will think you are good. Hope this helps!

--Yash-ip Girl

Dear Yash-ip Girl,

I feel like my teacher is not preparing me for the AP Exam. He/she is fixated on one key figure in his/her class and repeatedly shows us documentaries on that person. Also, he/she tries to link all of his/her class to one theme. Somehow, he/she teaches for the entire class period, and I did not learn one thing pertinent to the AP. How can I fix this situation without offending anyone?

--WORRIED about the AP

Dear WORRIED,

Even though I can understand your frustration, I think you might be blaming your teacher too early here. Each teacher offers his or her own perspective on a subject, allowing you to look at life through another perspective. Once you learn his/her vernacular in the class, you will learn to appreciate your teacher. You make have to work harder at home, but at the end of the year you will have a unique perspective on the subject.

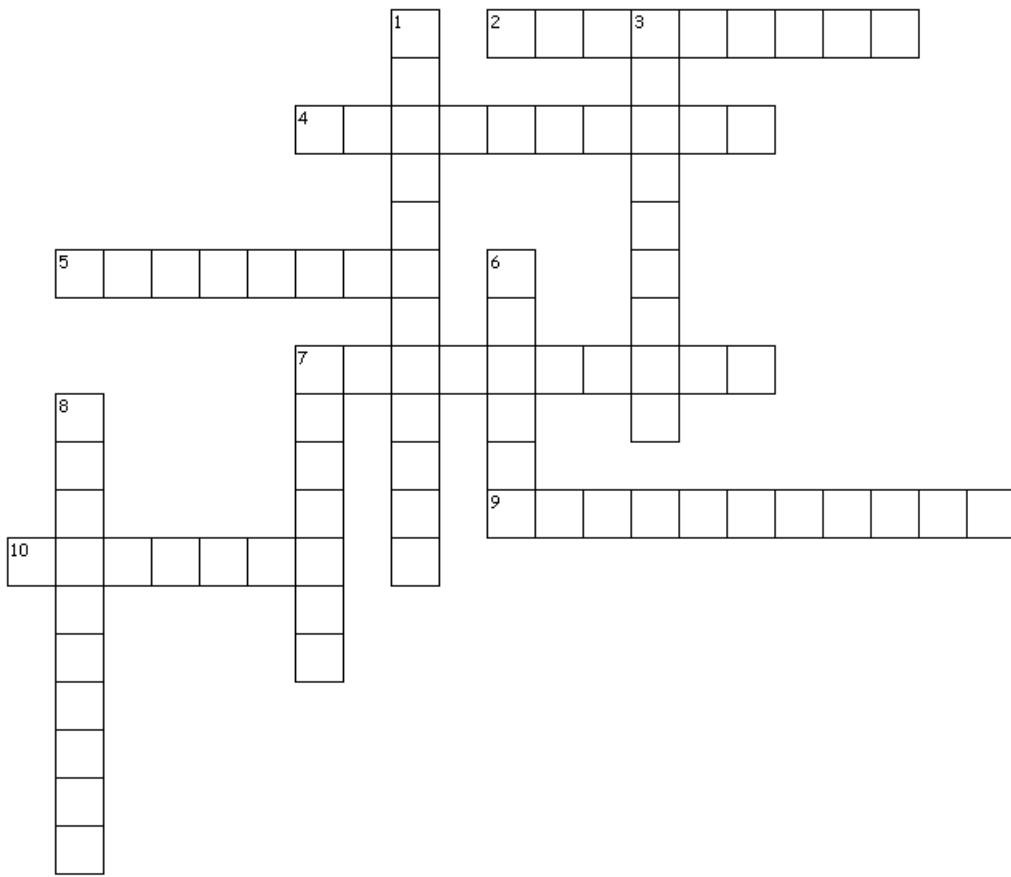
However, if you are that worried, then your best strategy is to have a private meeting with the teacher and express your concern. Most teachers—if you tell them honestly but respectfully (e.g., don't be as aggressive as Napoleon conquering Europe) how you feel—will want to improve their class. Their ultimate goal is for their students to succeed. Avoiding the problem until April may be the path of least resistance, but it is definitely not the best option.

If your teacher refuses to change, then don't make excuses. You have the power in your learning. Start preparing on your own for the AP. Get a prep book earlier than normal. Outline the chapters in a textbook. Look for interesting teachers who upload their lectures online. Don't be afraid to be creative. Good luck!

--Yash-ip Girl

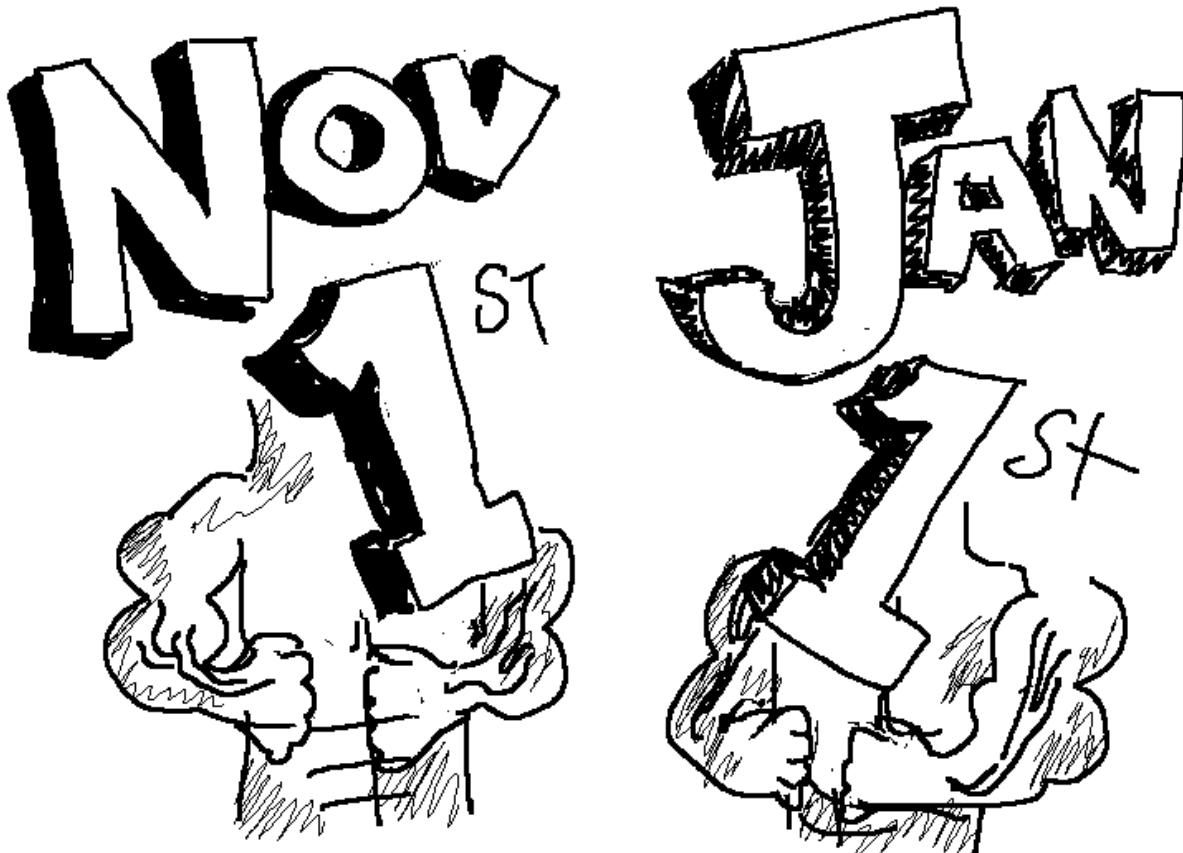
COLLEGE TOWNS

BY TREY CONNELLY



Across: 2. Cambridge; 4. Los Angeles; 5. New Haven; 7. Pittsburgh; 9. New York City; 10. Houston
Down: 1. Washington D.C.; 3. Baltimore; 6. Boston; 7. Phoenix; 8. New Orleans

THE TWO HIGH SCHOOL ADVERSARIES



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