Remember When...

The past two years at MSU have seen the craziest of Octobers. In 2011, a huge snowstorm effectively changed Homecoming 2011 into Snowcoming 2011. Despite this, students, alumni and families still came out to support the football game, the dance show, and so many other events. In 2012, Hurricane Sandy and all her destruction knocked power out for half of the campus and forced hundreds of students into temporary living situations. CAs, SAs, all of Res. Ed., Campus Recreation, and all departments on campus came together to support the students in this time of chaos and confusion. Students in The Heights, Blanton, Freeman, and Russ offered their living spaces and their support, as well. Not only did everyone pull together to support the MSU campus, but several campus organizations and departments also served to help communities in NJ that were affected. The past two Octobers were, quite literally, whirlwinds for MSU. Through the chaos, though, Red Hawks pulled together in incredible ways.

Whatever comes our way this October, whether expected or not, that same Red Hawk Pride will make it all worthwhile!

From all of us at the Academic Resource Center, we wish you an exciting (but not too exciting) October and good luck as we approach midterms!

Super Storm Sandy Facts:

- The winds of Super Storm Sandy reached 74+ mph.
- Sandy's pure kinetic energy for storm surge & wave destruction reached 5.8 out of 6 on the National Oceanic and Atmospheric Administration’s scale.
- In NY & NJ, storm surges were 13 above the average low tide.
- Sandy caused close to $62 billion in damage in the US & $315 million in the Caribbean.
Fractals are shapes or structures that, when looking at a small portion, appear similar to the figure as a whole. A tree, for example, consists of a large trunk with several limbs. Those limbs have several branches, and those branches have several more smaller twigs, and so on and so forth. The branch with twigs looks similar (not necessarily identical) to the tree in its entirety.

Common fractals include the Sierpinsky Triangle, the Koch Curve, the Square Carpet or Sierpinsky, and the Cantor Set. These fractals have pretty simple “codes” to follow and repeat over and over (infinitely) until the image is produced. For example, the Koch Curve “code” is:

1. Stage 0: Draw a line of any length.
2. Stage 1: Draw Stage 0, but remove the middle third of the line and replace it with two line segments that form a triangle “hat” piece over the removed middle third.
3. Stage 2: Draw Stage 2, but remove the middle third of every line segment and replace with two line segments as done previously.
4. Repeat this “code” of replacing the middle third of every line segment from the previous Stage with two line segments to form a triangular “hat”.

The Koch Curve can be used starting with a triangle rather than a straight line to create what is called a Koch Snowflake. Fractals such as the Koch Curve can produce beautiful images and are naturally occurring in addition to calculated mathe-

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**Fun with Fractals**

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**Heads Up!: Take Flight at Memorial Auditorium**

“Lift your spirits with this stirring new musical that takes flying, creativity, and American invention to new heights. Take Flight melds fact and fiction to tell the interviewing stories of 3 pioneers of aeronautics: the Wright Brothers, Charles Lindbergh and Amelia Earhart. As their dreams become reality, these aviators discover the real costs of their sky-high ambitions. With style and panache, this lush musical delves to the core of the American Experience.”

Oct. 18 7:30 pm  
Oct. 19 8:00 pm  
Oct. 20 2:00 pm  
Oct. 23 7:30 pm  
Oct. 26 2:00 pm  
Oct. 27 2:00 pm

Pick up your tickets at the Kasser Theatre Box Office or visit peakperfs.org
Cracking the Code

Quick response codes or QR codes were originally designed for the Japanese automotive industry to identify and give information about various items. Nowadays, the QR code is also used to direct people to websites, phone numbers, product information and tracking, YouTube videos, and tickets to concerts, and lots of other data.

Scanning a QR code may seem like a tricky task because of how strange the barcode looks, but rest assured it is very simple! With any smartphone (Android or iPhone), just download a QR code reader from the app store. The reader utilizes the phone’s camera to scan the QR code, which then gets interpreted into the data stored in the code.

Some popular QR code readers are Scan, RedLaser, Bakodo, and Quick Scan. Many QR readers are free, some cost a few dollars. Each app has its own pros and cons, but when looking for a QR code reader it’s important to find one that is easy to navigate and quick to use.

There are also apps and programs that allow you to generate your own QR codes. These include BeQRious, Delivr, Azonmedia, and goQR.me.

Now that you know a bit about QR codes, get scanning! The Academic Resource Center has a QR code generated so you can easily access our website to stay connected and updated with all our latest news.

Getting Crafty!

Autumn is a beautiful time of the year. With all the stress that builds up around the months of October and November, try using all that beauty to your advantage! Getting crafty is a great way to relieve stress and to make your bedroom or living room look a little more festive for the fall.

“Autumn is a second spring, when every leaf is a flower.”
-Albert Camus

This leaf sun-catcher craft was found on the blog The Ramblings of a Crazy Woman.
Come to the Academic Resource Center for all things related to your academic success! Our services are available for both resident & commuter students of Montclair State University. Our Resident Tutors offer help in various subjects from math & science, to writing skills & foreign languages.

Take charge of your academic success & visit the ARC & the Resident Tutors!

Location & Hours

There are now THREE Academic Resource Center locations open for all MSU students!

All three locations are open Sunday – Thursday from 4 PM – 10 PM

DINALLO HEIGHTS ROOM 2151

BOHN HALL 10th FLOOR

FREEMAN HALL ROOM 118