Presenter: Ellen Falk www.mathizaverb.com

Mathematical Modeling a Fourth Year Course SOURCES

**NASA, NOAA, Others**

Please visit my website [www.mathizaverb.com](http://www.mathizaverb.com) under information Extras for additional links

* NASA for educators

<http://www.nasa.gov/audience/foreducators/index.html>

* NASA- Exploring Space Through math Series- This series is no longer being updated, however it is an excellent resource!

<http://www.nasa.gov/audience/foreducators/exploringmath/home/index.html>

**Example :** Exploring Space through math- bone density

<http://www.nasa.gov/audience/foreducators/exploringmath/algebra1/Prob_BoneDensity_detail.html>

* **Other links NASA related**

Hubble images from NASA

<http://amazing-space.stsci.edu/gallery/>

For students

<http://www.nasa.gov/audience/forstudents/index.html>

**NASA RELATED**

* **Space Math – Sten Odenwald**

<http://spacemath.gsfc.nasa.gov/SpaceMath.html>

Examples: Exploring space storms from the sun

<http://spacemath.gsfc.nasa.gov/Modules/SMModule7.html>

Space math I series- sample activity 6

<http://www.nasa.gov/pdf/361712main_SMI_Problem6.pdf>

Space Math VII-

<http://www.nasa.gov/pdf/637836main_Space_Math_VII.pdf>

* **NEON**- For educators looking for professional development , webinars etc… FREE to join

<http://neon.psu.edu/>

NOAA

<http://www.education.noaa.gov/>

**tides**

<http://tidesandcurrents.noaa.gov/tide_predictions.shtml>

**sample for educators**

<http://www.education.noaa.gov/Ocean_and_Coasts/Tides.html>

**tides- ocean stuff - interactive**

<http://www.dataintheclassroom.org/content/sea-level/level1.html>

<http://oceanservice.noaa.gov/education/welcome.html>

**Tides on line-**

<http://tidesonline.nos.noaa.gov/>

**Cape may NJ example**

<http://tidesandcurrents.noaa.gov/data_menu.shtml?bdate=20121029&edate=20121030&wl_sensor_hist=W1&relative=&datum=6&unit=1&shift=g&stn=8536110+Cape+May%2C+NJ&type=Historic+Tide+Data&format=View+Plot>

**other –**

<http://tidesandcurrents.noaa.gov/index.shtml>

**How are tides measured?**

<http://oceanservice.noaa.gov/education/kits/tides/tides10_oldmeasure.html>

**video on storm surge**

<http://oceanservice.noaa.gov/video/stormsurge.mov>

**sea level trends**

<http://tidesandcurrents.noaa.gov/sltrends/sltrends_station.shtml?stnid=8516945%20Kings%20Point,%20NY>

Project based Learning- NOT to be confused with Problem Based Learning!

Buck Institute <http://bie.org/about>

Computing Technology for Math Excellence

<http://www.ct4me.net/about_this_site.htm>