**Connecticut Common Core Algebra 1 Curriculum**

**Web Sites for Unit 8**

|  |  |  |
| --- | --- | --- |
| **Where used** | **Web site address** | **Last checked** |
| Investigation 1 | TI-Graphing Calculator Web Site  [www.education.TI.com](http://www.education.TI.com) |  |
| Investigation 1 | Quadratic Function Applications  [www.math.LSA.umich.edu/courses/105/m105\_f05\_h4.pdf](http://www.math.LSA.umich.edu/courses/105/m105_f05_h4.pdf) |  |
| Investigation 2 | Solar Cookers  <http://video.nationalgeographic.com/video/environment/energy-environment/solar-cooking/>  <http://www.solarcookers.org> |  |
| Investigation 2 | Main Ripple Tank Applet  <http://www.falstad.com/ripple/ex-parabola.html> |  |
| Investigation 2 | Standard form and axis of symmetry  <http://www.mathwarehouse.com/geometry/parabola/axis-of-symmetry.php> |  |
| Investigation 3 | Image of Fenway Park  <http://commons.wikimedia.org/wiki/File:Fenway_Park02.jpg> |  |
| Investigation 3 | Image of Solar Cooker  <http://solarcooking.wikia.com/wiki/Parabolic_cookers> |  |
| Investigation 4 | How to graph a quadratic function in factored form  <http://www.youtube.com/watch?v=spFkuWt5Fh4> |  |
| Investigation 4 | Multiplication with Algebra Tiles  <http://media.mivu.org/mvu_pd/a4a/homework/multiplication_multiplication_intro.html> |  |
| Investigation 4 | Virtual Algebra Tiles  <http://nlvm.usu.edu/en/nav/category_g_4_t_2.html> |  |
| Investigations 4 and 5 | Virtual Algebra Tiles  <http://illuminations.nctm.org/ActivityDetail.aspx?ID=216>. |  |
| Investigation 5 | Wind sail design  <http://thefutureschannel.com/videogallery/windsails/> |  |
| Investigation 5 | Factor trinomial with leading coefficient = 1 (West Texas A & M)  <http://www.wtamu.edu/academic/anns/mps/math/mathlab/video.htm?video=algebra/college/07/05> |  |
| Investigation 5 | Factor trinomial with leading coefficient ≠ 1 (West Texas A & M)  <http://www.wtamu.edu/academic/anns/mps/math/mathlab/video.htm?video=algebra/college/07/07> |  |
| Investigation 5 | Wolfram Alpha symbol manipulation software  [www.wolframalpha.com](http://www.wolframalpha.com) |  |
| Investigation 5 | Factorization Calculator  [www.**calculatorsoup.com**/calculators/math/factors.php](http://www.calculatorsoup.com/calculators/math/factors.php) |  |
| Investigation 5 | Projectile motion: circus jugglers  <http://video.pbs.org/video/1602463762/> |  |
| Investigation 5 | Projectile motion: punting footballs  <http://science360.gov/obj/tkn-video/fc729ef0-22ee-4f61-bb2a-b6c07685fb02> |  |
| Investigation 5 | Projectile motion simulator  <http://phet.colorado.edu/sims/projectile-motion/projectile-motion_en.html>. |  |
| Investigation 5 | Projectile motion: sinking the pirate ship  <http://library.thinkquest.org/27585/lab/sim_pirates.html> |  |
| Investigation 6 | Golden Ratio  <http://www.youtube.com/watch?v=fmaVqkR0ZXg> |  |
| Investigation 6 | Parabolic arch  [http://olc.spsd.sk.ca/DE/math20/math20trailolc/documents/quad\_function.pdf](http://olc.spsd.sk.ca/DE/math20/math20trailolc/documents/quad_function.pdf" \t "_blank) |  |