Patty Paper Folding Of Hyperbolas

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Patty Paper Folding Of Hyperbolas
Hyperbola Paper Folding Activity . Directions: 1. On a piece of wax paper, patty paper, or transparent paper, construct a circle using a compass or circular shaped object. 2. Label the center of your circle A. 3. Create another point OUTSIDE the circle. 4. Label this point B. 5. Fold the paper so that point B is anywhere on the edge of the circle.

Hyperbola Paper Folding Activity
Fold the paper so that point B is anywhere on the edge of the circle. Hyperbola Paper Folding Activity - University Of Illinois Patty Paper folding activity . 1. On a piece of patty paper, sketch a circle using a circular object. 2. Mark a point outside the circle. This point is the focus. 3. Fold the paper so that the circle lies directly on top of the focus.

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Hyperbola Paper Folding Activity
It is helpful to turn over the patty paper and start over, after the student has gone all the way around on one side. If the student folds correctly and placed the point anywhere but the center or on the circle either a hyperbola or ellipse should be created.

Ellipses and Hyperbolas - mste.illinois.edu
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[MOBI] Patty Paper Folding Of Hyperbolas
Paper folding method for the parabola. First we will describe how to obtain a parabola by folding a sheet of paper (Johnson, 1995). Wax paper or patty paper works best. It is easier to see the creases. On a sheet of paper that has a straight edge, mark a point F not on the edge. Fold the paper so that the edge passes through point F (figure 1a). (a) (b)

Paper folding method for the parabola
At each dot, neatly fold the paper so that the point F lies directly above the dot on the line. Try to do this for at least 12 different points and try to space these points evenly across the line. As a result, your creases should form a curve winding partially around F. This curve that is constructed is your parabola. Let your students repeat this activity a few times on different sheets of patty paper.

How does the Paper Folding Activity of Parabolas Relate to ...
1. 1. Draw a circle on your piece of patty paper. Mark its center. 2. Mark a point outside the circle. 3. Fold your paper so that the point outside the circle lies on your circle. Crease your paper. 4. Repeat several times (at least 10!) until you see a shape appear. 2. 10.5 Hyperbolas 3. What does a sonic boom have to do with hyperbolas? 4.

10.5 Hyperbolas - LinkedIn SlideShare
Fold the blue point to the point on the directrix below the red point. What that crease intersects the vertical line is where the red dot should be. Perpendicular bisectors FTW! And you can do a quick patty paper demonstration of this to create a parabola! (We did this in my class last year, for parabolas, hyperbolas, and ellipses, thanks to Tina C.)

Parabolas: Focus and Directrix | Continuous Everywhere but ...
Reflections with Patty Paper L FIG. 1 B A D C L FIG. 2 D' A' C' B' B A D C Instructions: 1. Draw a diagonal across a piece of patty paper and label it L. 2. On one side of the diagonal, draw a quadrilateral (not a square or rectangle) and label it Reflections with Patty Paper - UH Paper Folding.

Geometry Patty Paper Folding Activities
(patty) paper, draw a small circle and mark a black dot outside the circle, labeling the dot "F." Mark a point on the circle, and fold the paper until F lies directly above

Paper Folding Conic Sections
Here's how to use wax paper to generate a hyperbola through a series of folds. I gave this assignment with written instructions to my students on March 4, 2010 and due to time constraints I was ...

Conics - Making a Hyperbola with Wax Paper
extend the paper folding activity in Station 3 from the lesson on ellipses. In that construction, paper folds were created on circular pieces of paper so that the circumference of the paper lied on a point inside the circle, point B. In Station 4 of the same lesson on ellipses, a GSP sketch was created that modeled that paper folding activity.

Unit Plan - Lesson #3 Topic: Hyperbolas
37) (+) Derive the equations of ellipses and hyperbolas given the foci, using the fact that the sum or difference of distances from the foci is constant. ... Students will use paper folding to discover an ellipse and how the distance between the foci and the shape of the ellipse are related. ... (patty paper or transparent paper) to construct ...

ALEX | Alabama Learning Exchange
Escher drawings with Patty Paper Geometry. This approach uses folding and tracing to build symmetric "Escher" patterns. Reference: Patty Paper Geometry by Michael Serra (Key Curriculum Press) Taxicab geometry - a simple non-Euclidean geometry. Measure distance differently on the usual plane and get a new geometry.