

TEACHERS' CORNER

Editors: *Shrikant Iyer and Rachel Katz*

We are delighted to launch this Teachers' Corner feature of *Creased*. Over the course of the year, we will be creating 6 lesson plans with accompanying diagrams of one origami base and 2 traditional models in each issue. The lessons will be geared for elementary to middle school students with an emphasis on math using NCTM standards. The diagrams of the models will be printed in the print magazine and the lesson plans, including the diagrams, will be available for everyone to download at www.creased.com/teachers.

Most people think of origami as an art form or craft. We think of origami as the perfect tool for teaching people of all ages a multitude of skills, sometimes without them even knowing they are learning.

Paper folding is a wonderful way to engage children in learning basic math concepts like shape, size, and numbers. The magic comes when they also learn patience and concentration as they make the fold neatly on their paper. They use their imagination as they see the beginnings of a bird emerging from the paper. They learn sequencing and problem solving as they realize that, to create an origami dog, specific steps must be followed in a logical order. As students practice models and learn more difficult models, their fine motor skills will also improve.

Most importantly, students will gain self-esteem as they succeed in finishing a model and take



pride in their work. They will know that sense of satisfaction we all feel when we have turned simple paper into a flower or butterfly, all to the amazement of those not familiar with folding. Students can learn to be teachers by showing others how to fold a model. It's a wonderful vehicle for getting students to share their skills and knowledge.

All the lesson plans will be great resources for anyone teaching Paper Folding to beginners whether in a classroom or workshop or fun one-on-one session of teaching.

Visit www.creased.com/teachers to download your lesson plans and traditional diagrams.

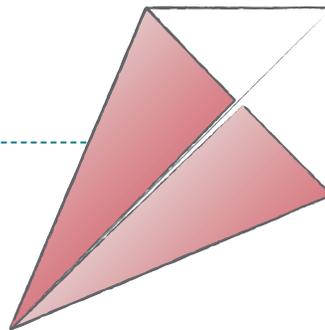
-Shrikant Iyer and Rachel Katz

LESSON PLAN OUTLINE

Issue 1 - Kite Base

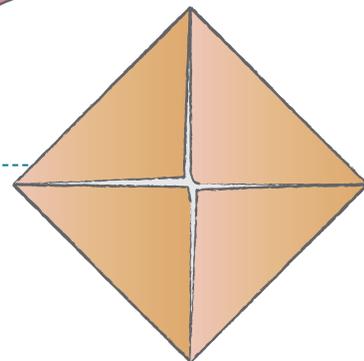
(also known as the Ice Cream Cone Base)

This lesson is used with the traditional whale and swan diagrams. Math concepts stressed include shape, symmetry, and angles.



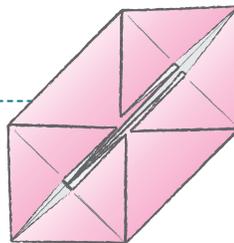
Issue 2 - Blintz Base

This lesson is used with the traditional photo frame and Chinese lantern. Math concepts stressed include shape, symmetry, counting, and patterns.



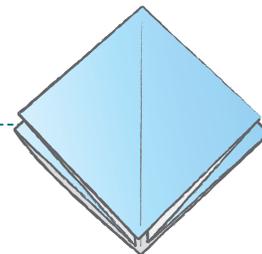
Issue 3 - Pig Base

This lesson is used with the traditional pig and traditional windmill models. Math concepts stressed include shape, symmetry, angles, and velocity.



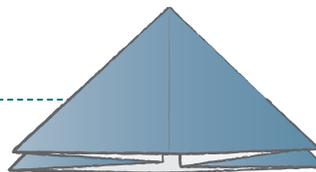
Issue 4 - Preliminary Base

This lesson is used with the traditional flower and basket models. Basic math concepts covered will include angles, symmetry, shape, fractions, and size.



Issue 5 - Waterbomb Base

This lesson is used with the traditional waterbomb and for older students the blow up rabbit. Math concepts covered will include shape, symmetry, angles, and volume.



Issue 6 - Bird Base

This lesson is used with the traditional flapping bird and traditional crane. Math concepts stressed will include symmetry, angles, shapes, and degrees.

