

Tweens DIY Package Origami Frog



This package provides Tweens the opportunity to problem-solve through a do-it-yourself activity.

Just follow the instructions and have fun!

STEAM CONNECTIONS FOR THE FROG

Math

- Learn about polygons after folding and unfolding the lines of the model completely.
- Practice math terminology as you go through the folding process.
- Hold a frog jumping contest by tracking the height and distance of jumps. Graph your results!

Science

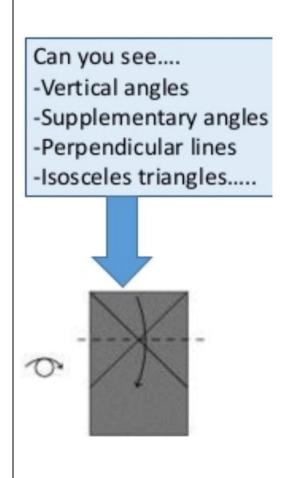
- Research interesting frog facts.
 Did you know a frog can jump 20 times its body length? If you were a frog, how far do you think could jump?
- Study the mechanics of a frog jump and compare this to your origami frog.

Art

 Look at the different skin patterns and colours of frogs, and decorate the colouring sheet attached. Try and camouflage your frog with its environment.



STEAM CONNECTIONS FOR THE FROG- MATH



Vertical angles

 The angles opposite each other on intersecting lines

Supplementary angles

 Two angles are supplementary when they add up to 180°

Perpendicular

 A line meeting at a right angle, or 90°

Isosceles triangles

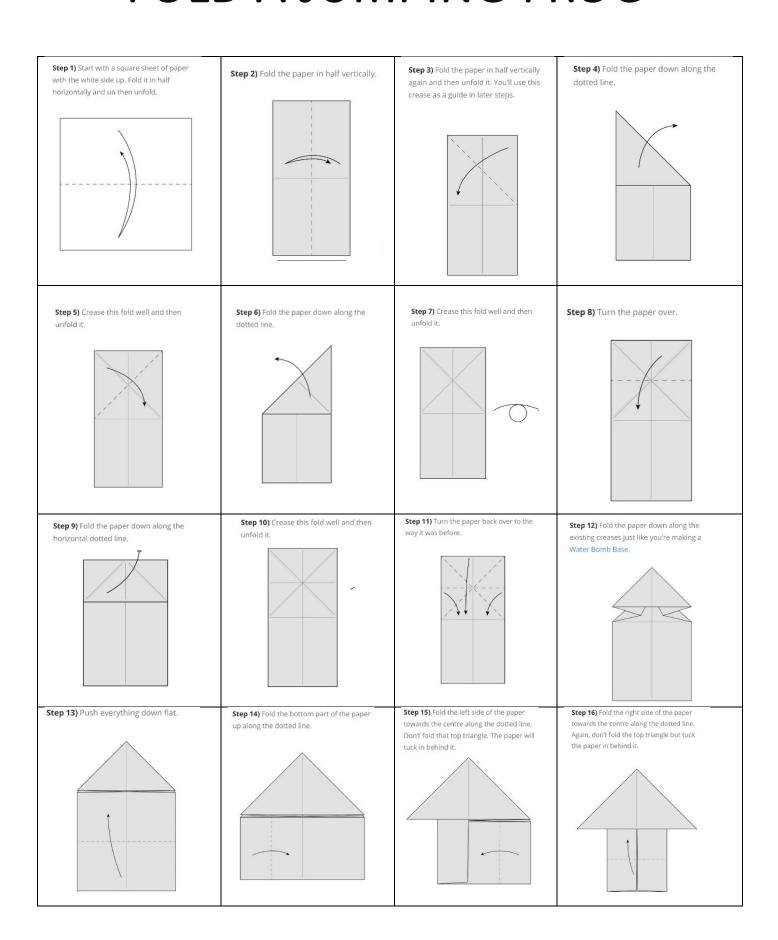
 A triangle that has two sides of equal length

Source

¹⁾ https://www.slideshare.net/mobile/nboakes/adding-steam-to-math-with-origami-njea-2016-presentation

²⁾ https://www.merriam-webster.com/dictionary

FOLD A JUMPING FROG



Step 17) Fold the bottom part of the paper up along the dotted line.	Step 18) Fold the paper down along the dotted line.	Step 19) Crease this fold well and then unfold it.	Step 20) Fold the paper down along the dotted line.
Step 21) Crease this fold well and then unfold it.	Step 22) Pull the two flaps of paper on the inside of either side out. Just like you're making a Boat Base.	Step 23) Fold the two flaps of paper on each side down along the dotted lines.	Step 24) Fold the top right part of the paper up along the dotted line. This will make one of the frog's front legs. Don't worry about the angle of the crease. As long as you get a shape like what you see in the next step it's fine.
Step 25) Fold the left part of the paper up along the dotted line to make the other front leg. It should match the other leg from the previous step.	Step 26) Fold the bottom right part of the paper up along the dotted line. This will form one of the back legs. This crease also doesn't have to perfectly match the diagrams as long as you end up close to the shape in the next step.	Step 27) Fold the bottom left part of the paper up along the dotted line to form the other back leg.	Step 28) Fold the entire model up along the dotted line.
Step 29) Fold the top part of the model down along the dotted line.	Step 30) Turn the whole model over.	The Completed Traditional Origami Jumping Frog. If you push down on the folds on it's back you can make it jump!	Source: https://origami.me/jumping-frog/

