

# Pop-Up Cards

Pop-up cards and books, in which a flat piece of paper transforms into a three-dimensional creation, enchant children and adults alike. In this project you will explore the geometry of triangles by using pop-ups. You will make pop-up cards and then use the language of geometry to tell others how to make them.

## Activity 1: (30 points)

- Follow the instructions included to create two different pop-up cards.
- Glue your card to the inside of a new piece of paper to create the outside of your pop-up card.
- Decorate.

## Activity 2: (30 points)

- Design a new kind of pop-up and create a pop-up card. Make sure to decorate it. *You may use the internet to help you, but please site where you found your design.*
- Using your geometry vocabulary, write instructions for how to create your pop-up.

## Checklist:

- Your cards should look professional. Make sure they are neat, colorful, and spelled correctly.
- Cards in the store include a message. Make sure to include messages in your cards.
- If you found your design on the internet for Activity 2, give them credit!
- Don't forget to include instructions for the card that you create on your own. Use geometric terms in your steps ("fold at a right angle," "cut parallel lines," etc.). You may use diagrams, but include written instructions as well.
- Make sure your instructions are either typed or written neatly.
- Get your project here on time! If you need help, ask!!!
- \*Turn this paper in with your project.

Project due: \_\_\_\_\_

Name \_\_\_\_\_

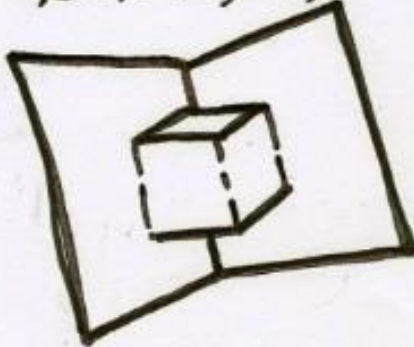
# Two Basic Pop-Ups

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Most pop-ups are made from variations and additions onto the Box and V-Fold.



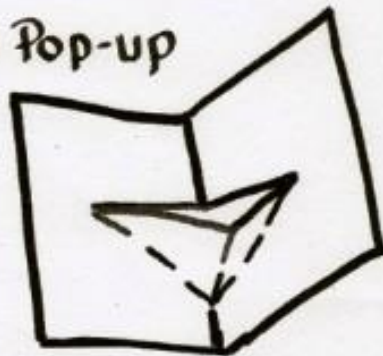
## Box Pop-up



1. **Fold** a piece of paper in half, making sure that the fold is crisp and sharp.
2. **Cut** two lines on the fold, like a wide, sideways "eleven."
3. **Fold** the flap between the cut lines back and forth to make a sharp fold at the base of the "eleven".
4. **Push** the flap to the inside, between the pages of the folded paper.
5. **Open** the paper and discover the box pop-up!



## V-Fold Pop-up



1. **Fold** a piece of paper in half, making sure that the fold is crisp and sharp.
2. **Cut** one line on the fold.
3. **Fold** a triangle down from the end of the cut line to somewhere on the fold. Make this into a sharp fold by folding the triangle back and forth.
4. **Push** the triangle to the inside, between the pages of the folded paper.
5. **Open** the paper to discover the "V" pop-up!