

What You Need

- 12 3" x 5" white index cards
- markers or crayons

Make a picture look like it's moving!

Staple the index cards along one of the short edges to make a book.

2 Which **part** of your drawing will look like it's moving? This is the part that you will draw a little bit differently on each page. (For example, if you want to show a face changing from a frown to a smile, you would draw the mouth differently

> **3** Draw a picture on the last page of the book. First draw only the parts of the picture that **don't change**. (For example, draw a face

> > **4** Now put the next-to-last page over the picture, and **trace** it. Keep tracing until all the pages have the picture.

> > > **5** Starting again on the last page, **draw** the part of the picture that **will change**, but draw it a little bit differently on each page. (For example, draw a smiling mouth. Then on the next pages, draw a mouth a little bit differently until it becomes a frown.)

> > > > **6** Flip the pages forward and backward, and watch the pictures change.



Sent in by Meaghan F. of Medford, MA

Now it's time for you to experiment. What happens if you flip the pages **faster** or slower? What happens if you use more or fewer pages? Try drawing different pictures. Do some shapes or colors work better than others? Change one thing (that's the variable) and make a new flip book. **Predict** what you think will happen and why. Then test it and send your results to ZOOM.



