

The Basics of Making Pop-Up Designs

It is helpful if you have notecards, cardstock, or thicker paper. You can use regular paper, if that is all you have to work with.

1. Review the Paper Engineering Presentation on the UASTEM website.
2. In class we focused on 3 pop-up elements – box folds, v-folds, and combinations of these elements.
 - Watch these videos on making a simple box fold pop-up –
 - <https://www.youtube.com/watch?v=v-J3KtuJXxl>
 - <https://www.youtube.com/watch?v=RVZEsanzJTqM&t=1s>

Consider how you might use these ideas with your future students. How could they use these skills to creatively demonstrate their knowledge of content and make hands-on connections?

Now watch this video about adding additional box folds –

- <https://www.youtube.com/watch?v=lASJ0s6J7K4>

Create a pop-up card design using box folds.

Now watch these two videos on making v-fold pop-ups -

- <https://www.youtube.com/watch?v=gvreHZoEil4>
- <https://www.youtube.com/watch?v=AVwv5YTsfMs>

Create a pop-up using v-folds.

Select one of the videos from The Pop-Up Channel at <https://www.youtube.com/@thepop-upchannel4919> and create a pop-up from one of the tutorials that you have selected.

In our STEM lab we have several copies of the book *The Elements of Pop-Up*. This is a wonderful book that models the ways that we can create paper engineering designs. You can watch an excellent demonstration from the book here - <https://www.popupbooks.com/portfolio/the-elements-of-pop-up/>

You can also access templates for each of the designs from the book at https://d28hgpr8am2if.cloudfront.net/tagged_assets/613_ak1_0689822243.pdf

Templates can be a great way to take your paper engineering projects to the next level.