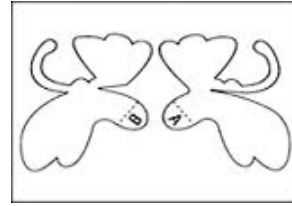


Activity Two: Pop-Up Paper Engineering



What you need:

- Paper Engineering – Pop-up card
- Paper butterfly/moth template (See p.4)
- Crayons or markers
- Card stock
- Printer paper
- White craft glue
- How-to Video at - <http://cosmos.bgsu.edu/handson.htm>
Video courtesy of <http://www.popupbooks.com/home.html>

What to do:

1. Cut out the rectangular card and fold it in half along the dotted line.
2. Using your journal sketches and websites or books as your guide, color then cut out your butterfly/moth.
3. Following the instructions in the video, carefully glue the inserts into the card.
4. Close the card and let the glue dry for about 10 minutes.
5. Write the name of your insect and what species it is on the front of the card and a butterfly or moth fact.
6. Open your pop-up card and enjoy.

**Using the template as your guide, you may create your own template to make an exact replica of the butterfly or moth you observed – with wing shape, antennae and all.*

This activity is derived from David A. Carter and James Diaz' book, *Elements of Pop-Up: A Pop Up Book For Aspiring Paper Engineers.*

For more templates and pop-up book ideas to implement in the STEM classroom, please visit **David Carter's website** at <http://www.popupbooks.com/home.html>



More fun sites on the art and science of paper engineering:

Mark Hiner – Paper Engineer - <http://www.markhiner.co.uk/>

Matthew Hawkins: *Toying Around With Paper Engineering Creativity*
<http://www.noupe.com/design/matthew-hawkins-toying-around-with-paper-engineering-creativity.html>

Bruce Foster – Paper Engineering: <http://paperpops.com/>

Beautiful Butterfly

