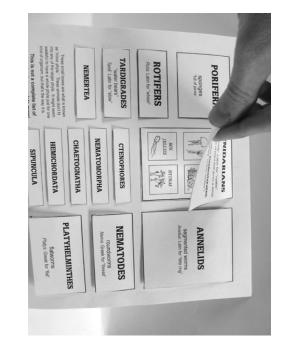
# LIFT-THE-FLAP CLASSIFICATION CHART OF INVERTEBRATES





NOTE: You may want to emphasize the fact that "phylum" and "flap" both start with the F sound. It will make it easier to remember that the flaps represent phyla.

classification of invertebrates Purpose of craft: To provide a resource the student can refer to in current and future studies of the

# Target age group: 9-16

5-10 minutes.) Time allowance: 20-30 minutes (If an adult pre-cuts the flaps for the students, it can be assembled in

while you cut the flaps with the knife possible), scissors, an X-Acto knife or razor blade, and a heavy piece of cardboard to lay under papers clear tape, a good quality glue stick or white glue (avoid washable glue sticks and "school glue" if at all Materials you will need: Copies of the pattern pages printed onto heavy card stock paper,

# Instructions:

1) Copy the pattern pages onto heavy card stock paper. Note that one copy will need to be doublesided (unless you want to glue the cover on separately). The picture page with the sponges, cnidarians and annelids at the top needs to be on the reverse of the cover, as shown in the picture.



of them, making it easy for the students to see where the flap is when viewed from the back side. This will help with step 3. 2) Place the flap pages onto a piece of cardboard and cut the sides and bottoms of the flaps using the X-Acto knife or razor blade. Then open the flaps just a little, so that there is a very slight crease at the top

this particular project because it may become too dry too fast. strong and kids usually use way too much of it. (My guideline is always that if you see glue oozing out with which to apply the glue, to avoid getting too much glue dripping all over the flaps. White glue is very between strips. If you are using white glue, you may want to provide the students with a small paintbrush from the cracks, you've put on too much. No oozing!) Note: white glue might be trickier to work with on being very careful not to get glue on the backs of the flaps themselves. You only want the glue on the in-3) If you are using a glue stick, put a very generous amount of glue stick onto the backs of the flap pages

middle strips between flaps. Press and rub until you are sure the papers are firmly attached. Also, pry picture page. each flap up just a bit (not all the way) just to make sure that they are not permanently bonded to the After laying the flap page down onto the appropriate picture page, press very firmly along all edges and

you apply the wide tape. tape at each side to hold the pages in place. This will make it much easier to get the seam straight when table and be meticulous about making sure the seam edges will match up exactly. 4) Once the flap pages are glued, you only need to attach the top to the bottom. Lay the pages on the Use a small piece of

sides so that you will have a durable seam that will bear being opened and closed many times 5) Use a strip of clear packing tape across both the inside and outside of the seam. Put tape on both

# NOTES:

on a central chart that all the students could see from anywhere in the room. In a classroom setting, it can make my large version but I felt it was worth the time. at their own individual copies. (This is especially true for younger students.) It took me about an hour to be difficult to make sure that every student is looking at what you are talking about if they are looking only For my classroom, I made a large version of this chart using 4 sheets posterboard. I could point to things

longer period of time than if they just looked at a poster with no flaps mental act of trying to remember what is under those flaps will help them retain the information for a The nice thing about this chart is that you can quiz the students about what is under each flap. The

I used this chart with students as young as 8 years old and had outstanding results. They didn't know this topic was supposed to be hard and they saw it basically as a game. Thus, they now have no fear of taxonomy.



### **ECHINODERMS**

*Echino*: Greek for "spiny" *Derma*: Greek for "skin"

### MOLLUSKS

Mollis: Latin for "soft"

## **ARTHROPODS**

*Arthro*: Latin for "joint" *Pod*: Latin for "foot"

**BRACHIOPODS** 

BRYOZOANS

