

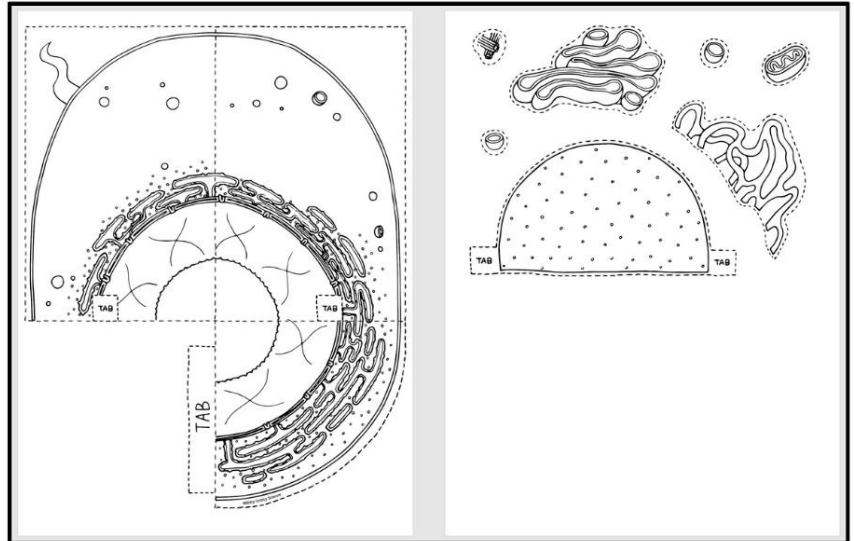
Building NGS Magnified Models

CHOOSE AN OPTION

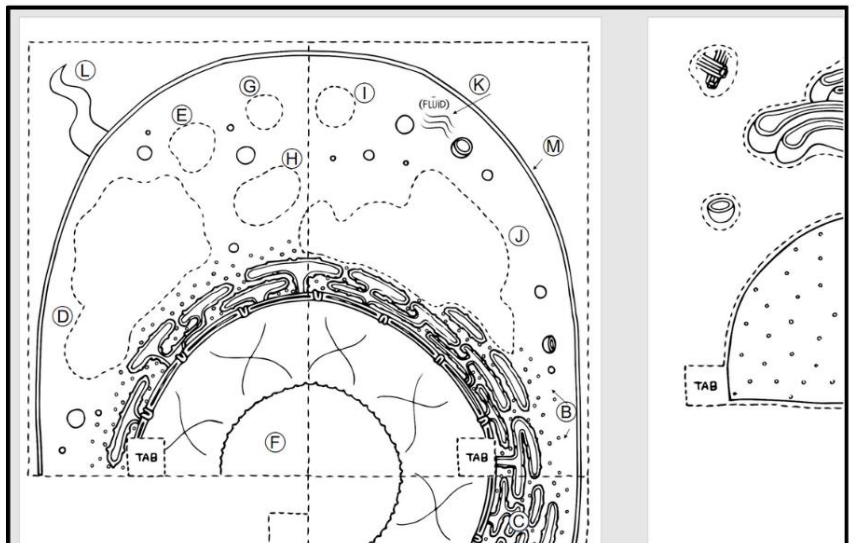
To begin with, you will need to decide which model option is best for your students. Then, you will need to print enough copies for each student/group (cardstock works best).

Option A:

Students will cut out the basic model background and parts and determine where to place the cutouts. They will also need to decide how to label and display the model.



Option B: Students will cut out the model background and parts along dotted lines. Dotted lines will help them place the cutouts in the correct positions. All parts are labeled using an alphabet system, which will help them complete the key (included—see following pages).



Building NGS Magnified Models cont.

COLOR AND CUT

Color the model with colored pencils, crayons or markers. Take care to NOT cover the letters if creating a model with a key.



Cut out the background of the model taking care to not cut off tab.



SCORE AND FOLD

Use the edge of the scissors to lightly score along the fold lines to help with straight folds.

Fold model so that background is upright and base touches both sides of the background.



Building NGS Magnified Models cont.

COMPLETE THE BACKGROUND

Color the model with colored pencils, crayons or markers. Take care to NOT cover the letters if creating a model with a key.

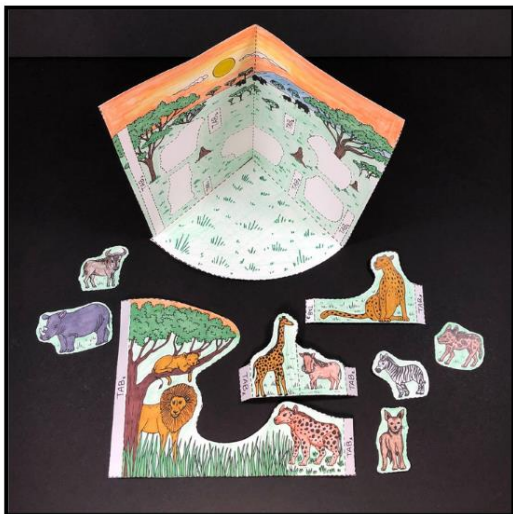


Color the model with colored pencils, crayons or markers. Take care to NOT cover the letters if creating a model with a key.



ADD THE CUT-OUTS

Begin adding cut-outs. Have students add flat pieces first, followed by tabbed cut-outs.



Match numbered tabs to those on the background for correct placement.



Building NGS Magnified Models cont.

3D EFFECT (optional) AND PLACEMENT

Use foam adhesive circles to attach cut-outs for a more 3D look, or glue in for no 3D effect.



Place cut-outs along dotted lines that match with the shape of the cut-out.

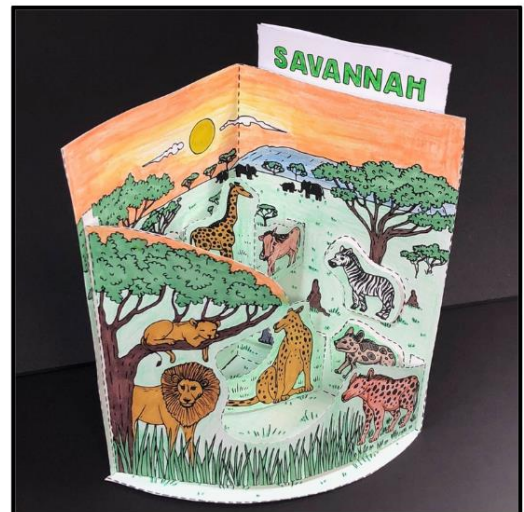


ADD POCKET AND KEY/BROCHURE (optional)

Glue pocket (template included) on the back of the model for the placement of the key and/or brochure.



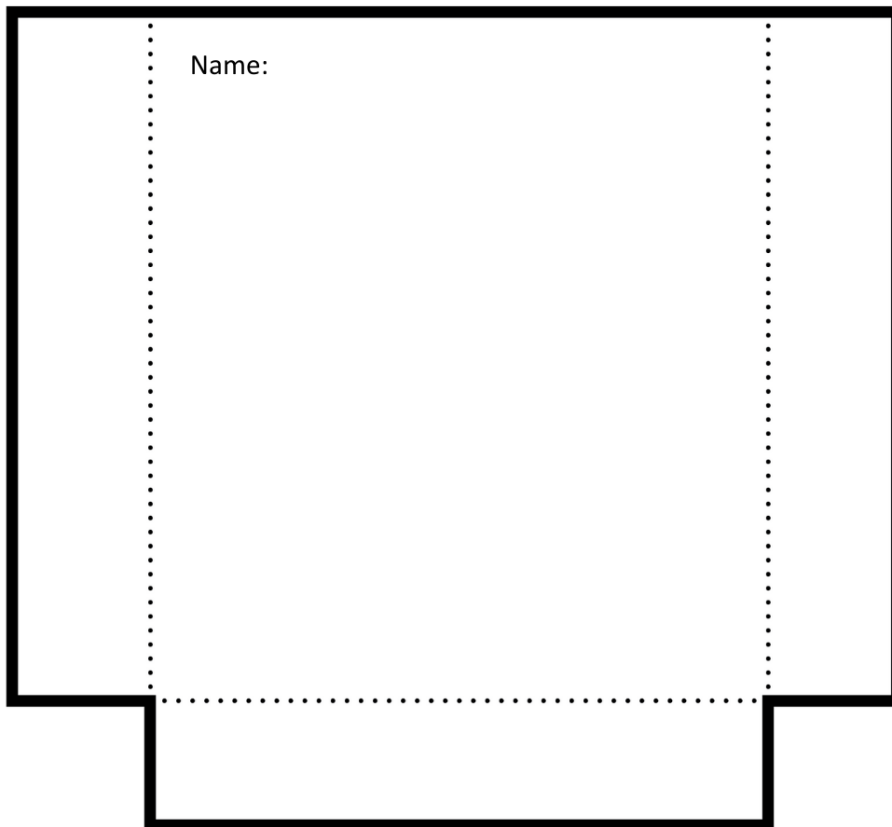
Students complete a brochure or a key so that others may learn from the model.

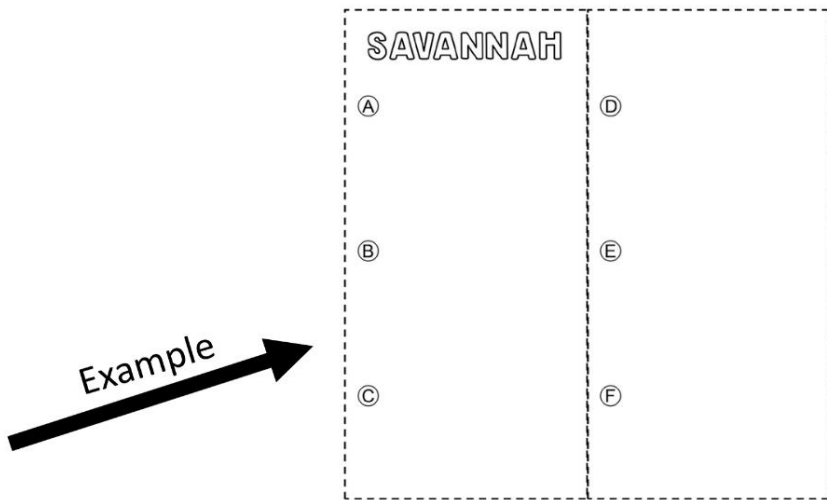
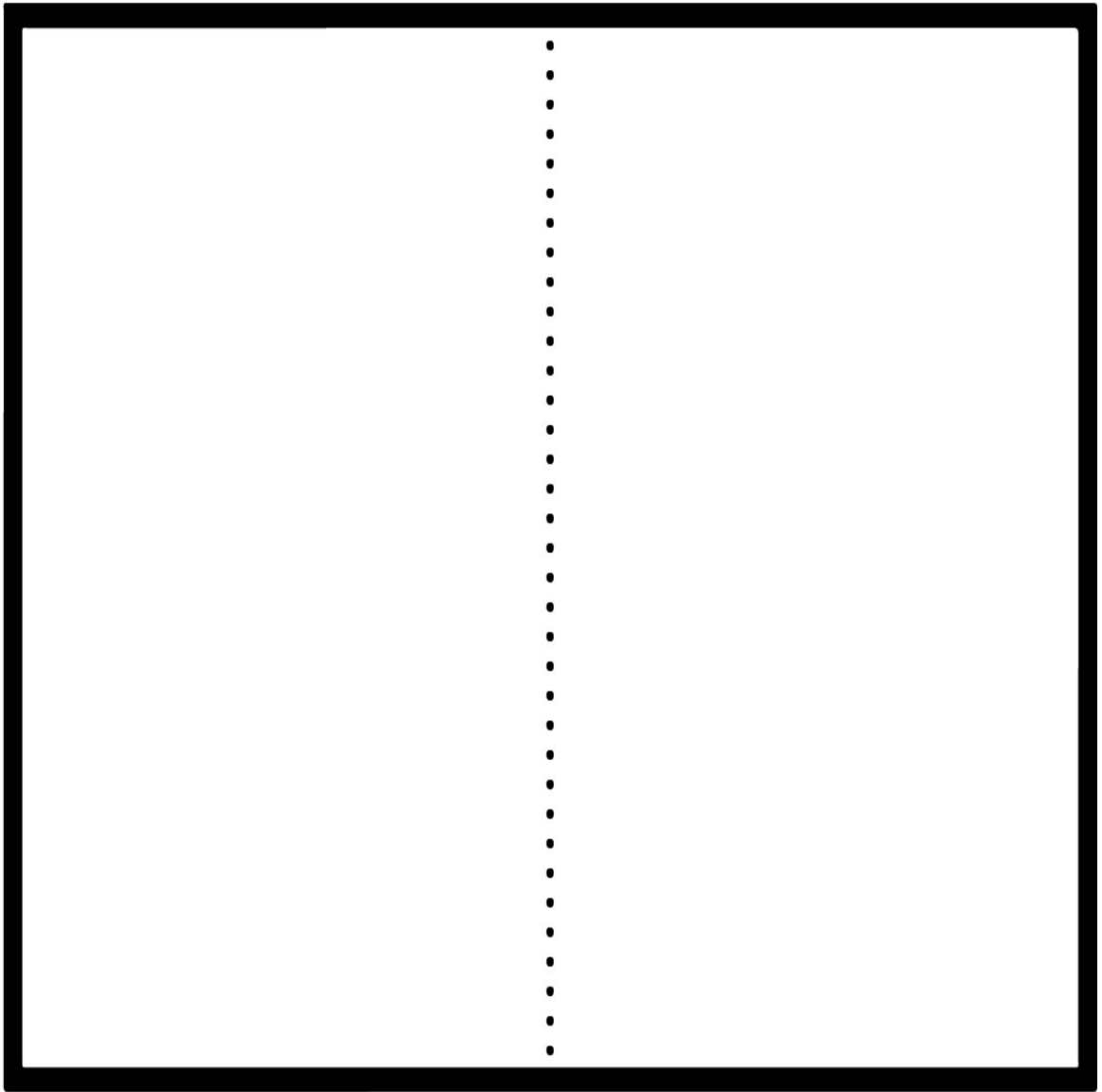


Pocket and Key Template

Directions:

1. Cut out the following pocket template and blank key.
2. Fold the pocket template on the dotted lines and glue to the back of the model using the folded edges.
3. Identify parts of each model and label them on the key, along with a description, next to the letter which corresponds to the letter on the model.
4. Place model key inside pocket.

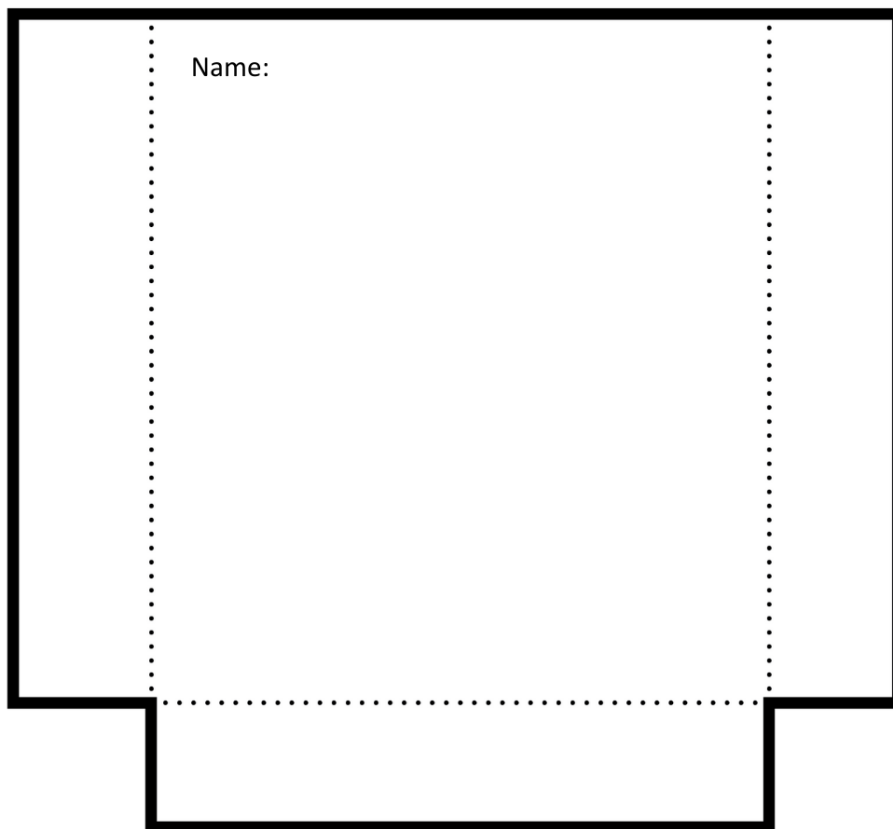


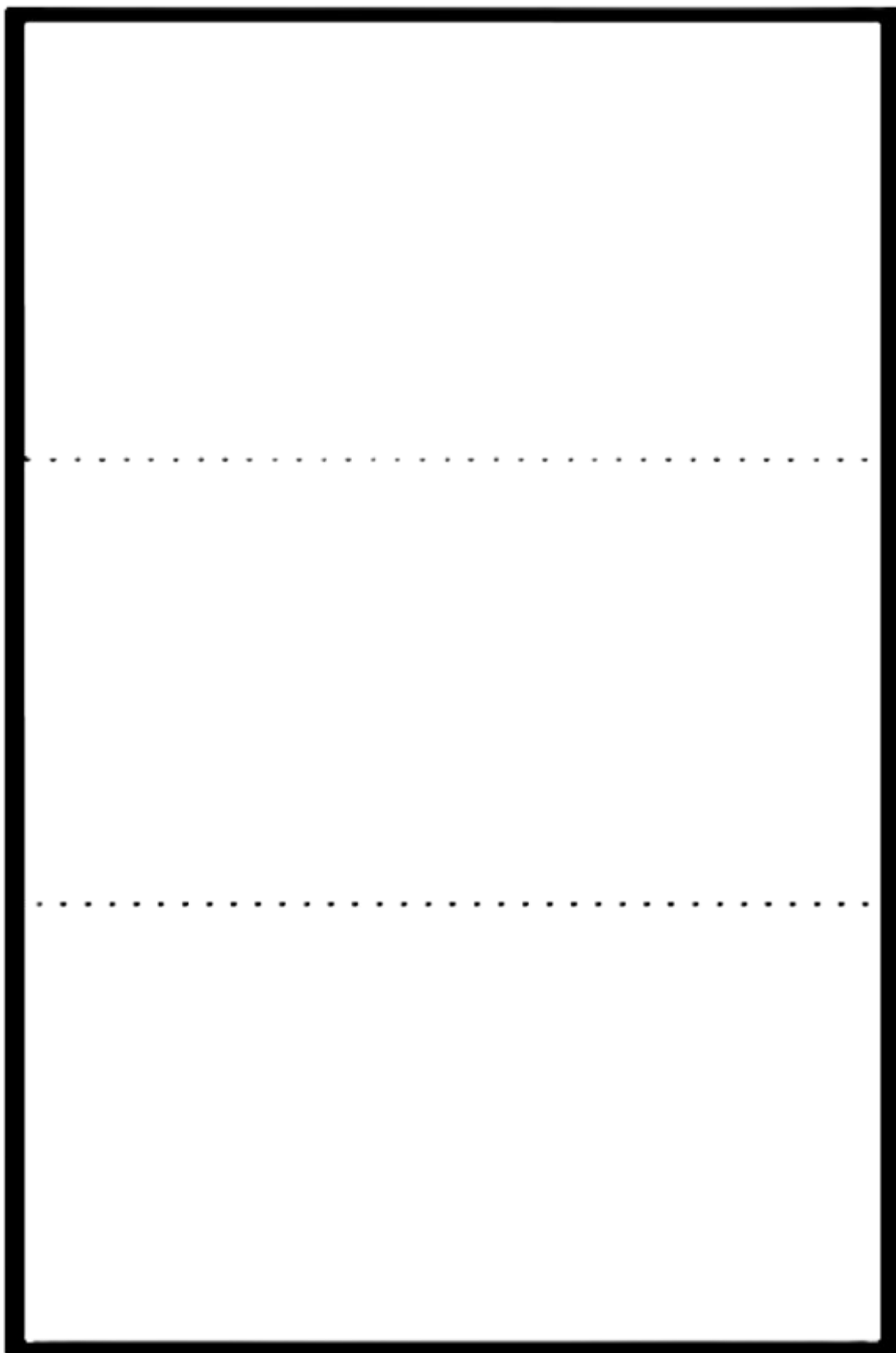


Pocket and Brochure Template

Directions:

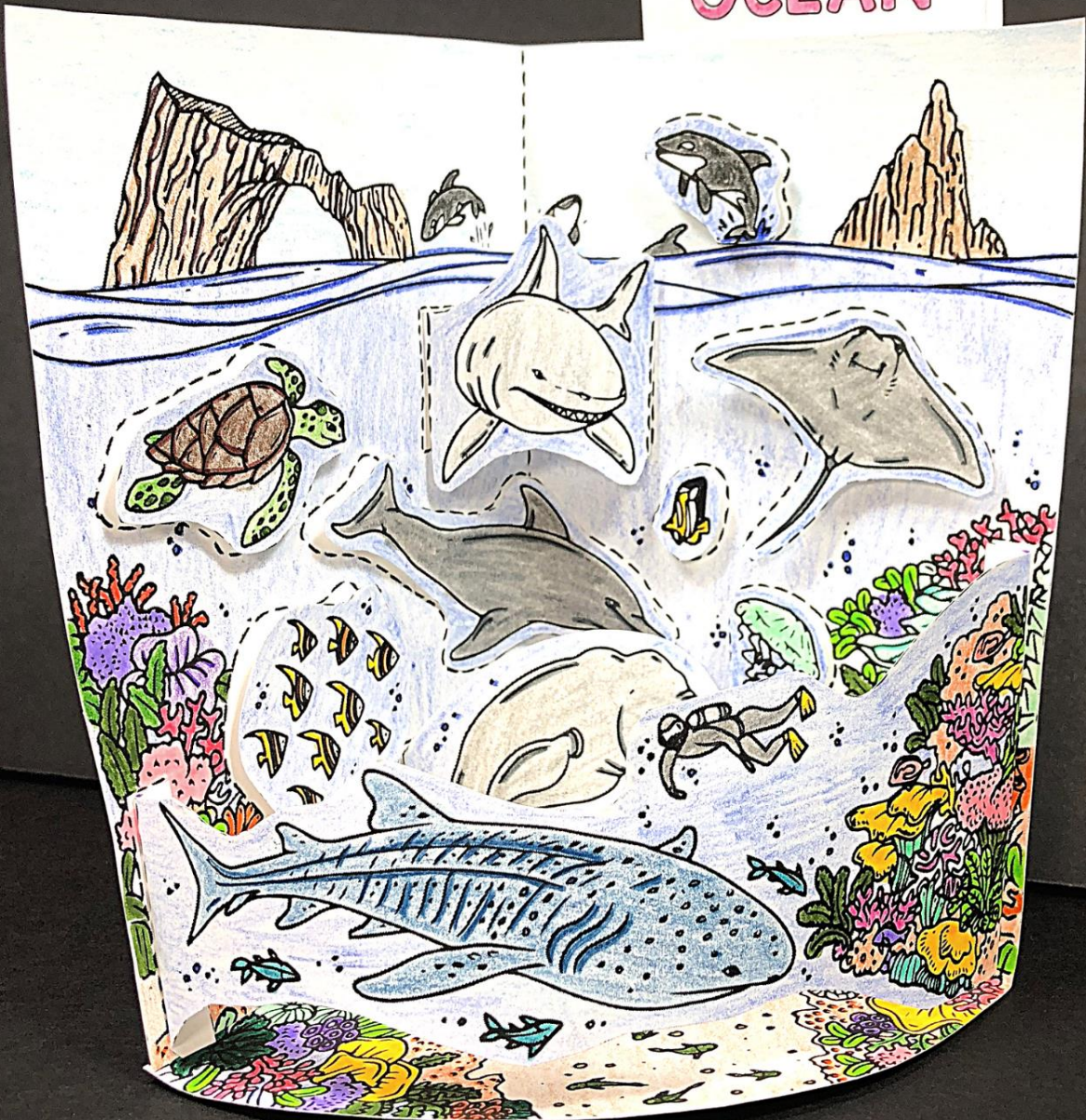
1. Cut out the following pocket and brochure template.
2. Fold the pocket template on the dotted lines and glue to the back of the model using the folded edges.
3. Create a brochure according to directions from your teacher. Remember – neatness counts!
4. Place the completed brochure inside pocket.





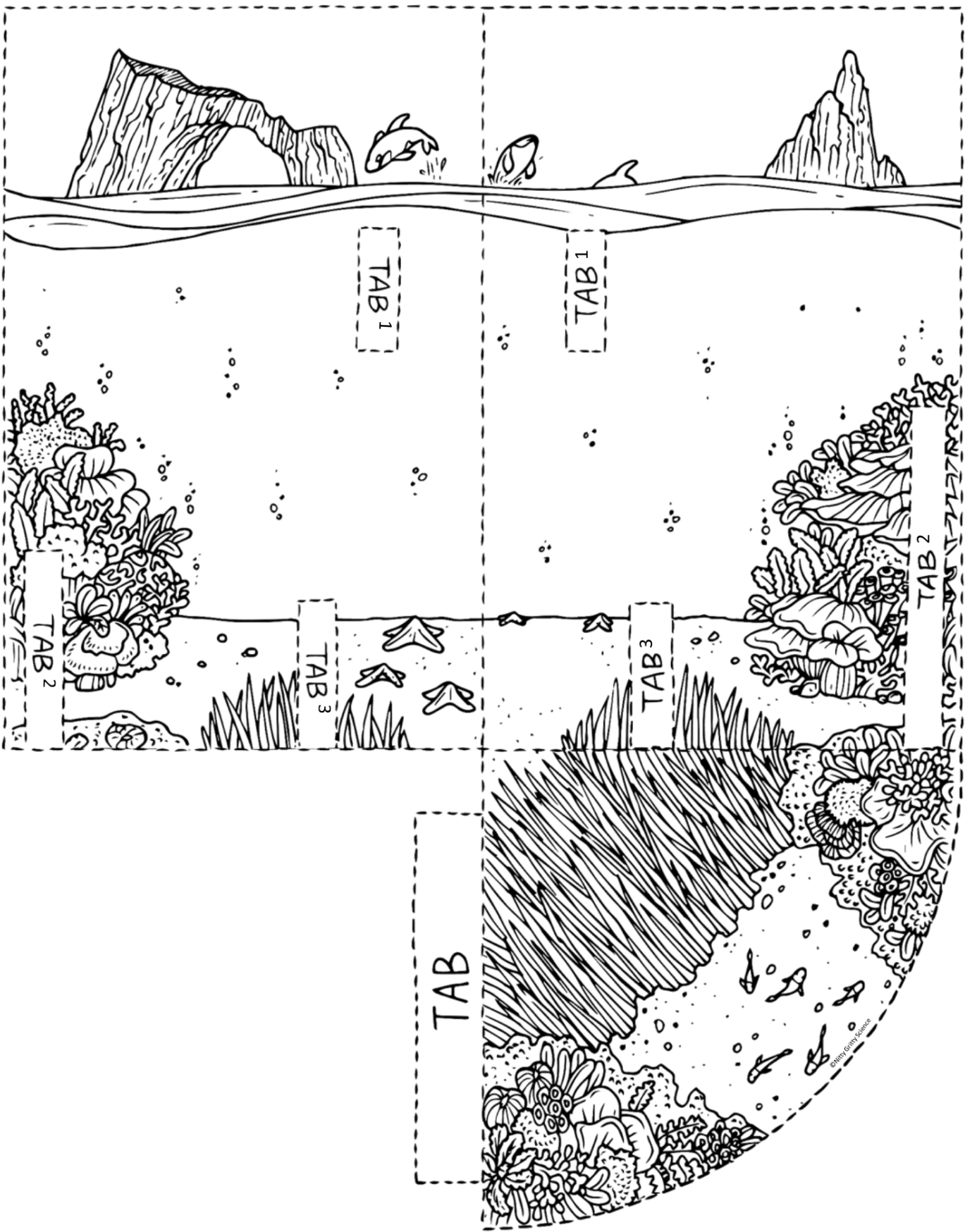
OCEAN BIOME

OCEAN



OPTION A

Model with cut-outs only.



TAB 1

TAB 1

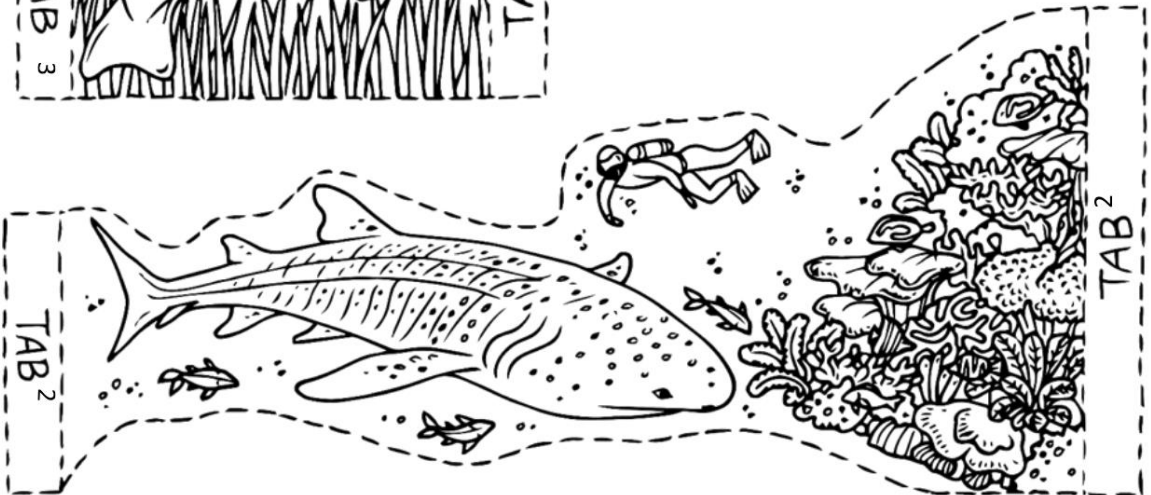
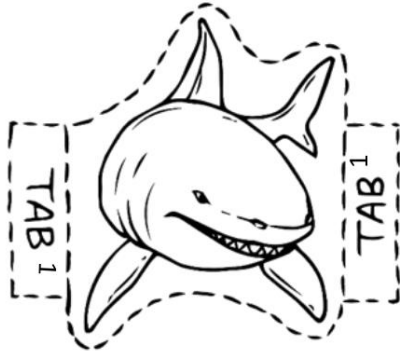
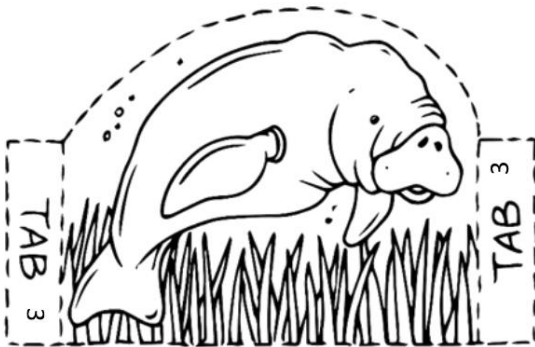
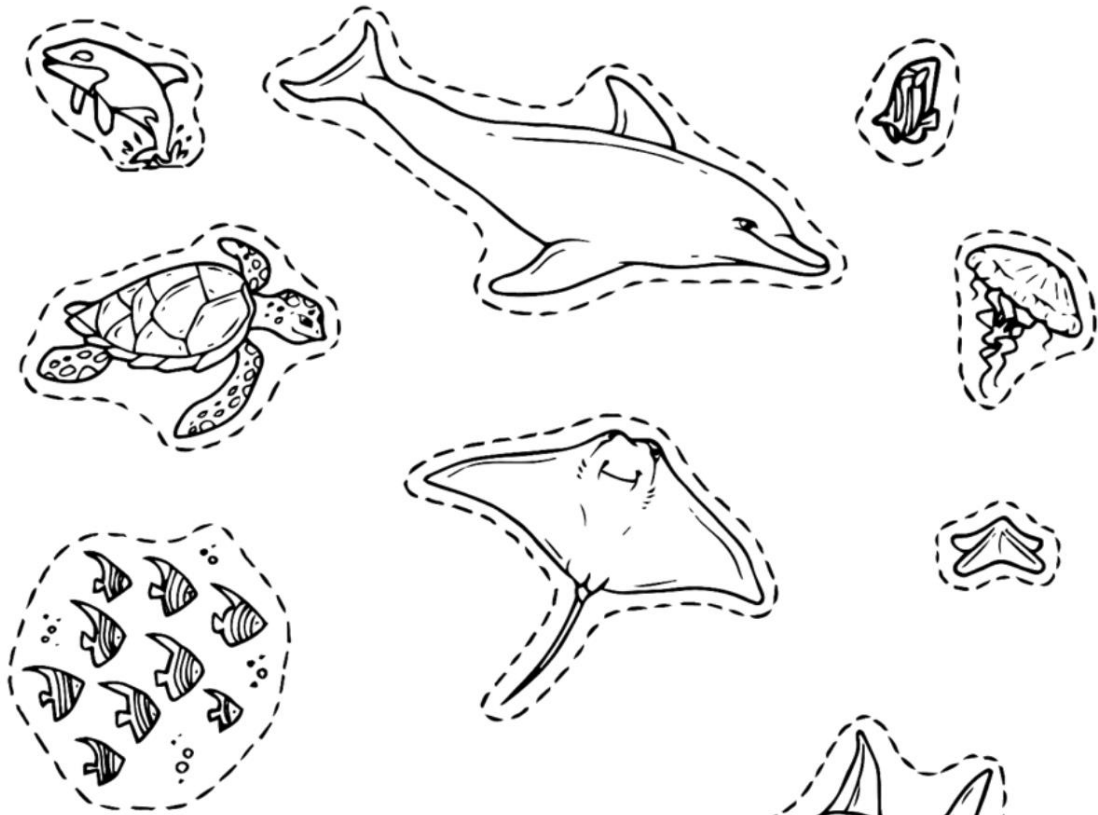
TAB 2

TAB 3

TAB 3

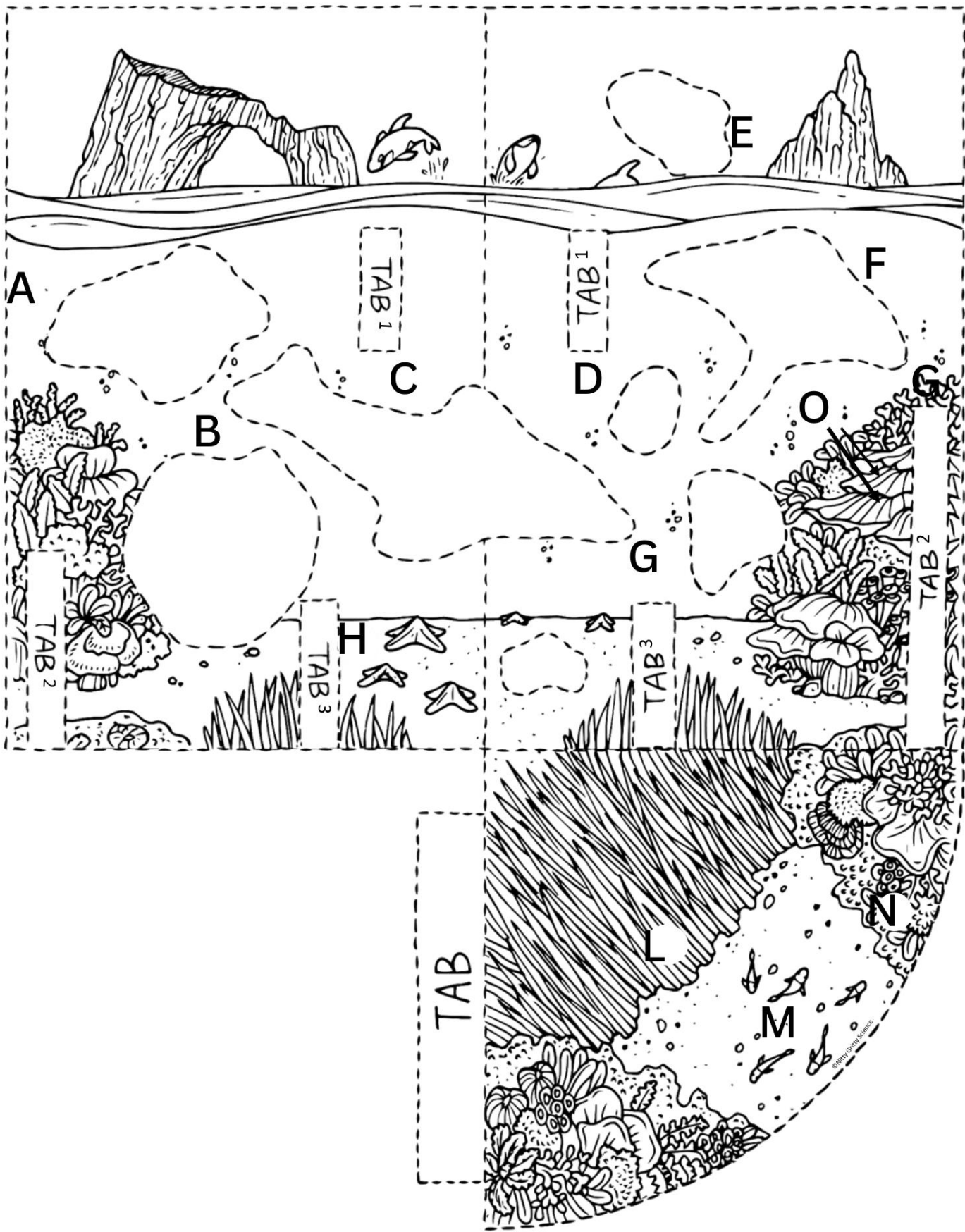
TAB 2

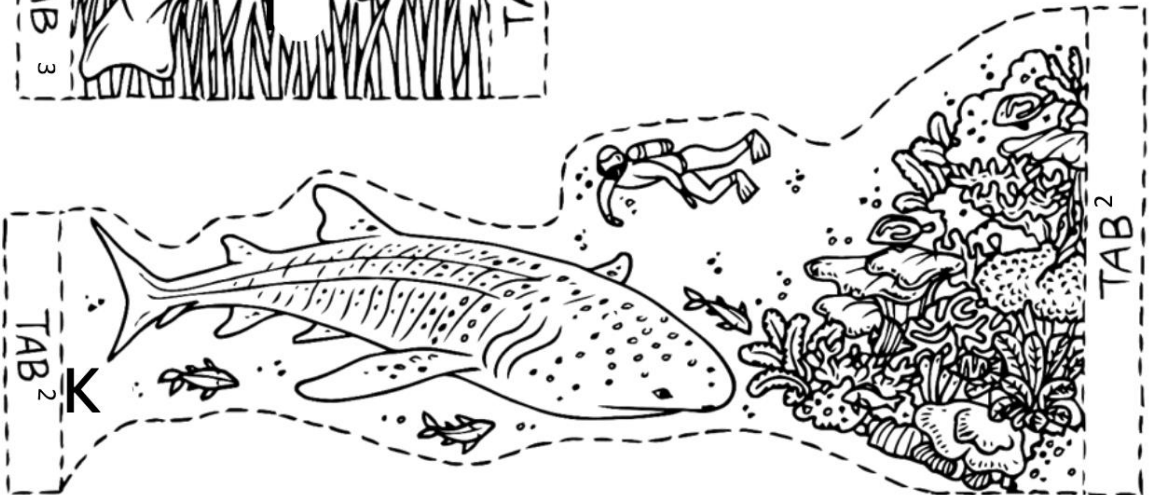
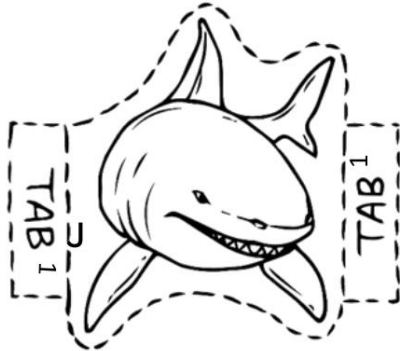
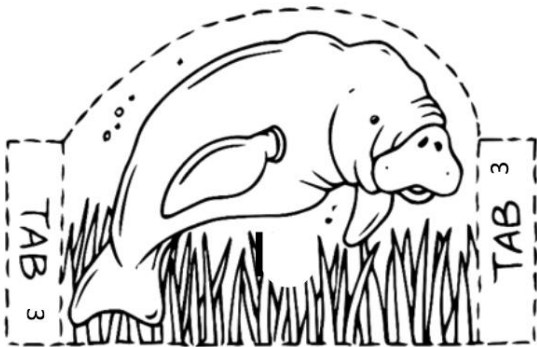
TAB



OPTION B

Model with cut-outs, cut-out placement and letter mark-up for easy key identification.





TEACHER ANSWER KEY

Identification of parts and/or organisms in the model.

OCEAN

A Sea Turtle

B Angel Fish

C Dolphin

D Butterfly Fish

E Orca Whale

F Sting Ray

G Jellyfish

H Starfish

I Manatee

J Tiger Shark

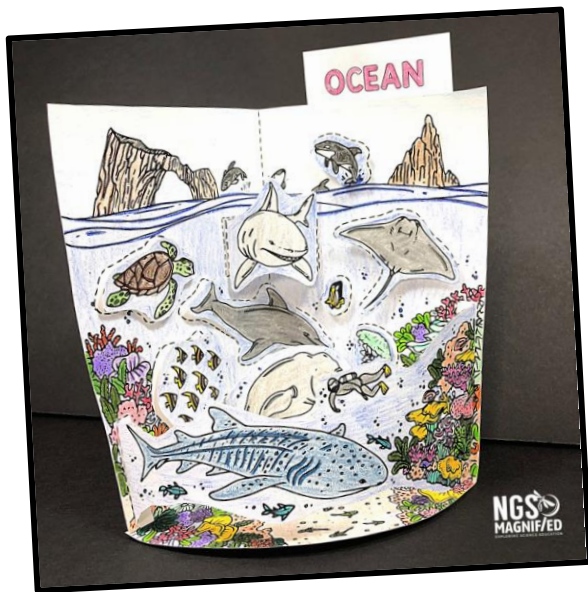
K Whale Shark

L Seagrass

M Cleaner Wrasse

N Coral

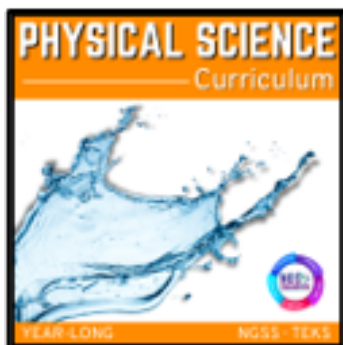
O Clams



Enjoy this 3D Model from our **Biome Project: Ocean Biome**. Find more 3D models [here](#). When your students are developing and using models, they are engaging in the practices of the Science and Engineering Process focused on in the Next Generation Science Standards (NGSS).

Explore our comprehensive Middle School Science Curriculum for **Life Science**, **Physical Science**, and **Earth Science** by clicking below!

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[Earth Science](#)



[Life Science](#)





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