

# LUNGS AND SMOKING

Here's what we used...

## SCENEARAMA® Items

- Ripplin'Water Kit
- Plaster Cloth
- Project Glue
- Large Project Base & Backdrop

## Household Items

- Corrugated Cardboard, 12" x 12"
- Craft Paints and Brushes
- Cutting Surface
- Disposable Cup
- Foam Core Board, 8" x 10" (2)
- Hobby Knife
- Newspaper
- Pan for Water

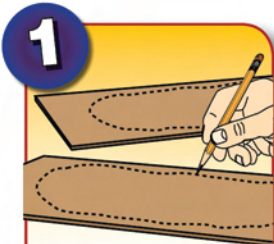
## Did you know?

In the United States, lung cancer is the cause of more cancer related deaths than colon, prostate, ovarian, lymph and breast cancers combined. Cigarette smokers are at the greatest risk of developing lung cancer, and the risk increases with the length of time and amount of cigarettes smoked.

## Fun Fact!

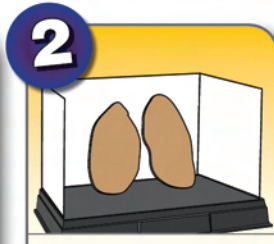
Our lungs consist of approximately 90% air and only 10% tissue.





### 1 Lungs Template

- Trace lung templates on cardboard, then cut out.



- Test fit lung cutouts on *Project Base with Backdrop* in grooves.
- Easels will add height to lungs.
- Enlarge or reduce lung size if desired.



### 3 Newspaper Wads

- Fill in outlines with newspaper wads.
- Form wads into lung shapes.
- Tape to hold.



- Starting at the outer edges, roll a sheet of newspaper toward the center.
- Cut the rolled newspaper half way up the sheet where the two sides meet in the middle.



- Form rolled newspaper into inverted "Y" shape.
- Tape to hold, then cut to fit lungs.



### 6 Plaster Cloth

- Cover newspaper wads and back of cardboard with wet *Plaster Cloth*.
- Smooth an indent on top of right lung for cutaway area. (Fig. 6a)



- Use small strips of wet *Plaster Cloth* to define lobes.
- Place on lungs while *Plaster Cloth* is still wet.
- Outline cutaway area with strips of wet *Plaster Cloth*.



- Cover newspaper "Y" in 2 layers of wet *Plaster Cloth*. Overlap edges for a finished look.
- Test fit lungs while *Plaster Cloth* is wet. Trim for a proper fit. (Fig. 8a)
- Let dry.



- Attach "Y" to lungs one side at a time.
- Attach with *Project Glue* or strips of wet *Plaster Cloth*.
- Hold in place until setting begins.
- Let dry.



- Paint lungs as desired with craft paints.
- We painted a healthy lung and a diseased lung.
- Let dry.



### 11 Shiny Areas

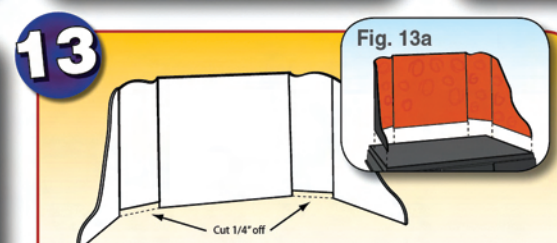
- Brush *Realistic Water* over painted lungs.
- This will give the lungs a shiny, wet appearance.
- Let dry 24 hours.



### 12 Water Effects

- Using the *Stir Stick*, dab *Water Effects* along blood vessels.
- This will give them a raised appearance.
- Let dry until clear.

**NOTE!** Make sure *Realistic Water* is dry before applying *Water Effects*.



### 13 Project Base & Backdrop

- Design a *Backdrop* that best fits your diorama.
- Attach *Backdrop* to *Project Base* using *Project Glue*. (Fig. 13a)

**TIP!** Create a unique design by cutting 1/4" off bottom of backdrop as illustrated. Score new fold lines with blunt end of a paintbrush.



### 14 Easel Template

- Create two easels using foam board and the *Easel Template*.
- If desired, paint foam board to match your project.

15



**Contact Gluing Method**

- Use *Project Glue* and Contact Gluing Method to attach easels to *Project Base*.
- Attach lungs to easels.
- Let dry.

16



**Labels**

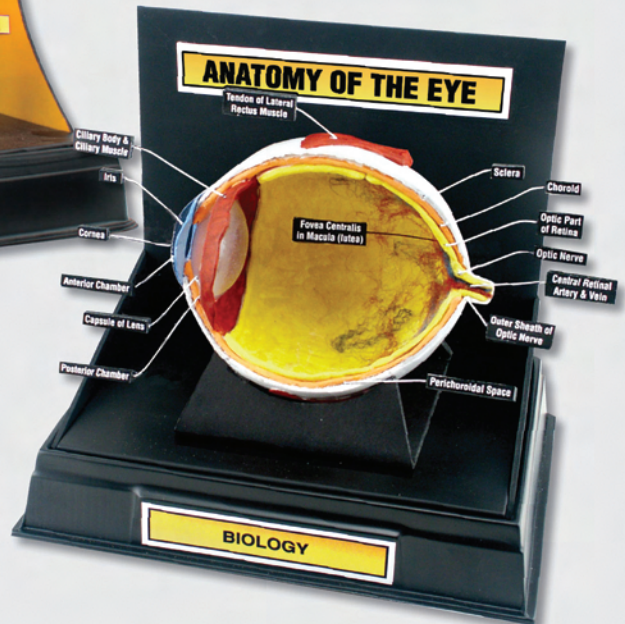
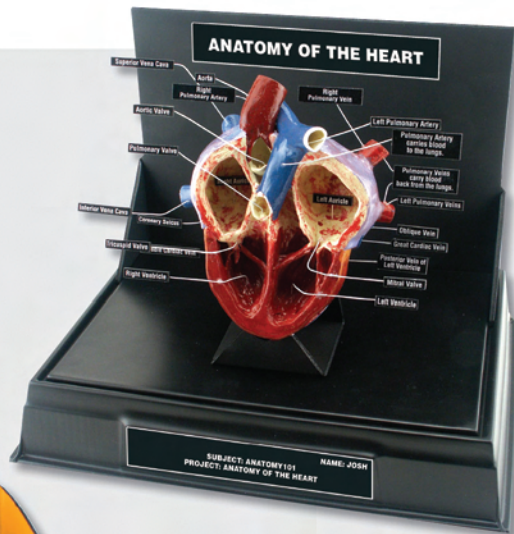
- Label and add signage to your project.

**Helpful Hint**  
 Paint realistic water over an anatomy project to give it a wet appearance.

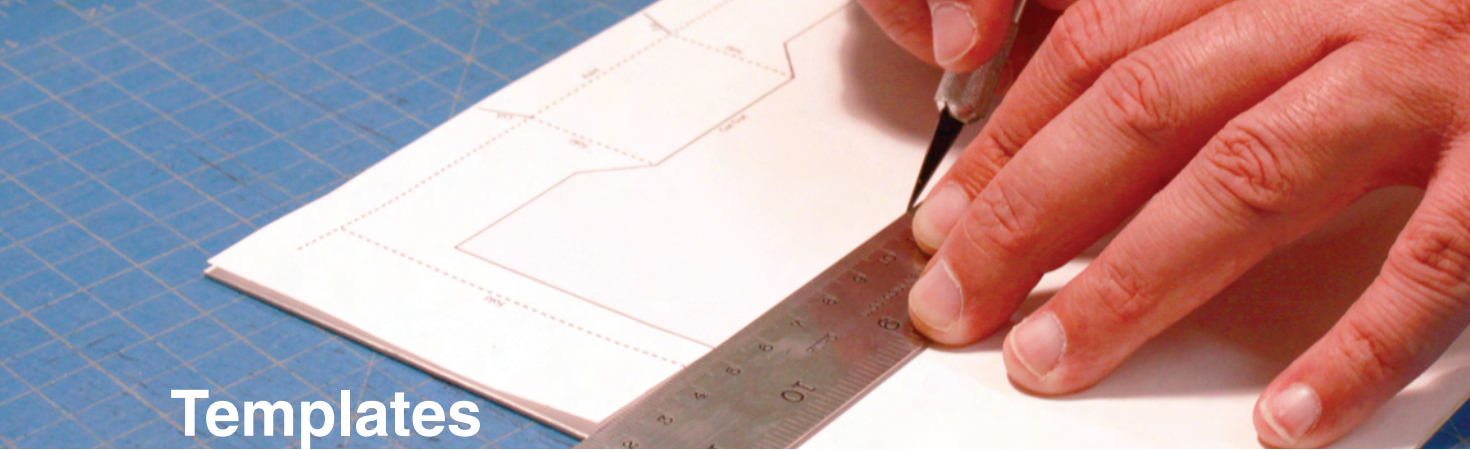
See the **A+ PROJECTS & DIORAMAS: The Student's Handbook (SP4171)** for more information.

**More Ideas!**

Visit the Tips, Techniques & Templates section for loads of ideas on how to add impressive details to a science project or anatomy diorama.



*Science Projects*



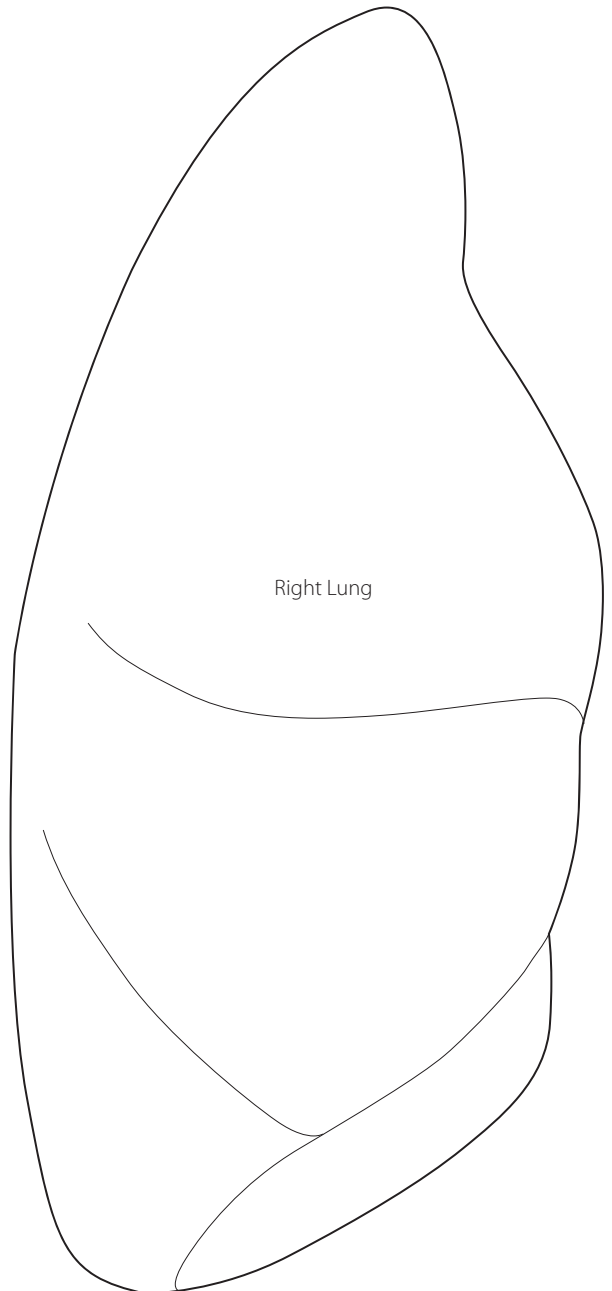
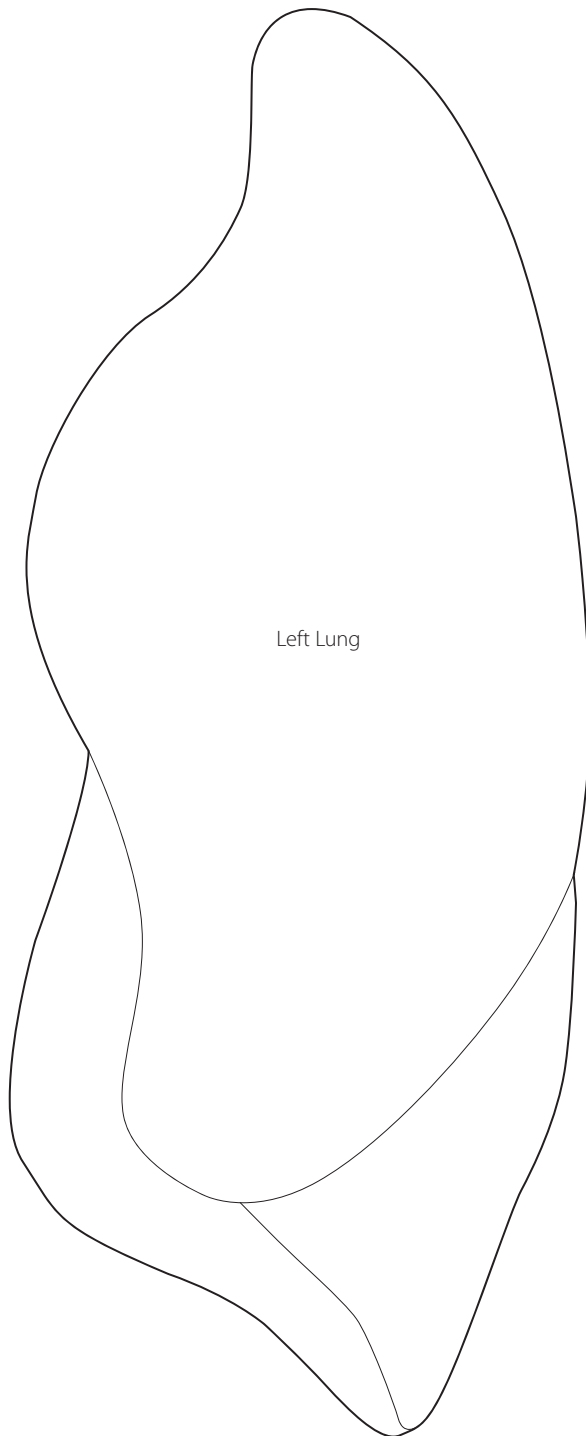
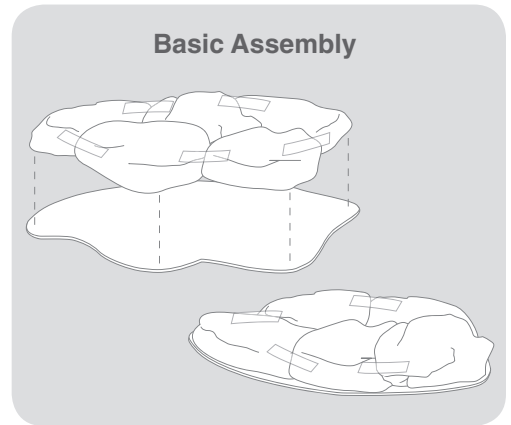
# Templates

- Photocopy, trace or scan template onto white paper. Cut out, then trace onto specified material.
- If needed, reduce or enlarge templates to fit your diorama.
- Each template includes basic assembly instructions and needed materials.
- Read through the corresponding project instructions for clarification on using template.
- Short dotted lines ----- indicate fold lines
- Long dotted lines — — — indicate score lines
- Bold, solid lines ——— indicate cut lines

# Lungs

Lungs and Smoking (pg. 85)

- Use a copier to shrink or enlarge the lung templates. Enlarge Lungs Template by 25% when using the Large Project Base & Backdrop.
- Cut out copied template, trace cutout on cardboard, then cut out.
- See step-by-step instructions for assembly informaton.



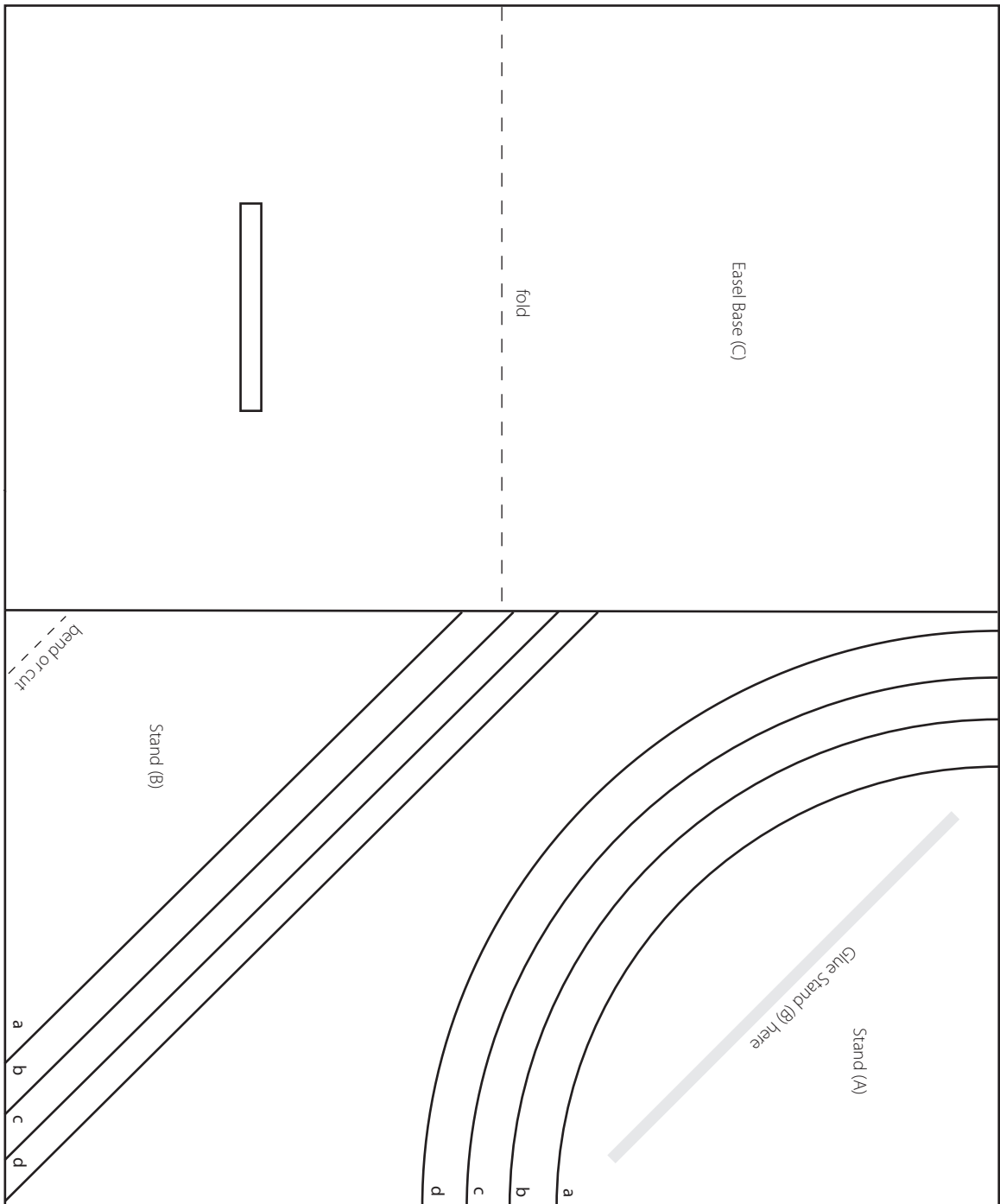
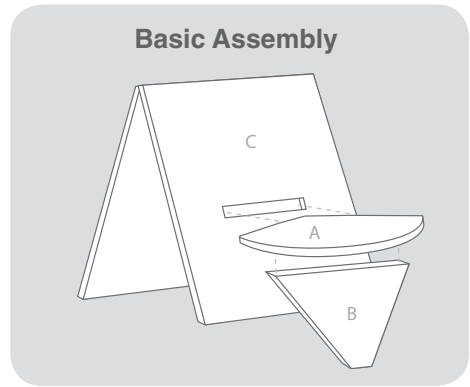
# Easel 1

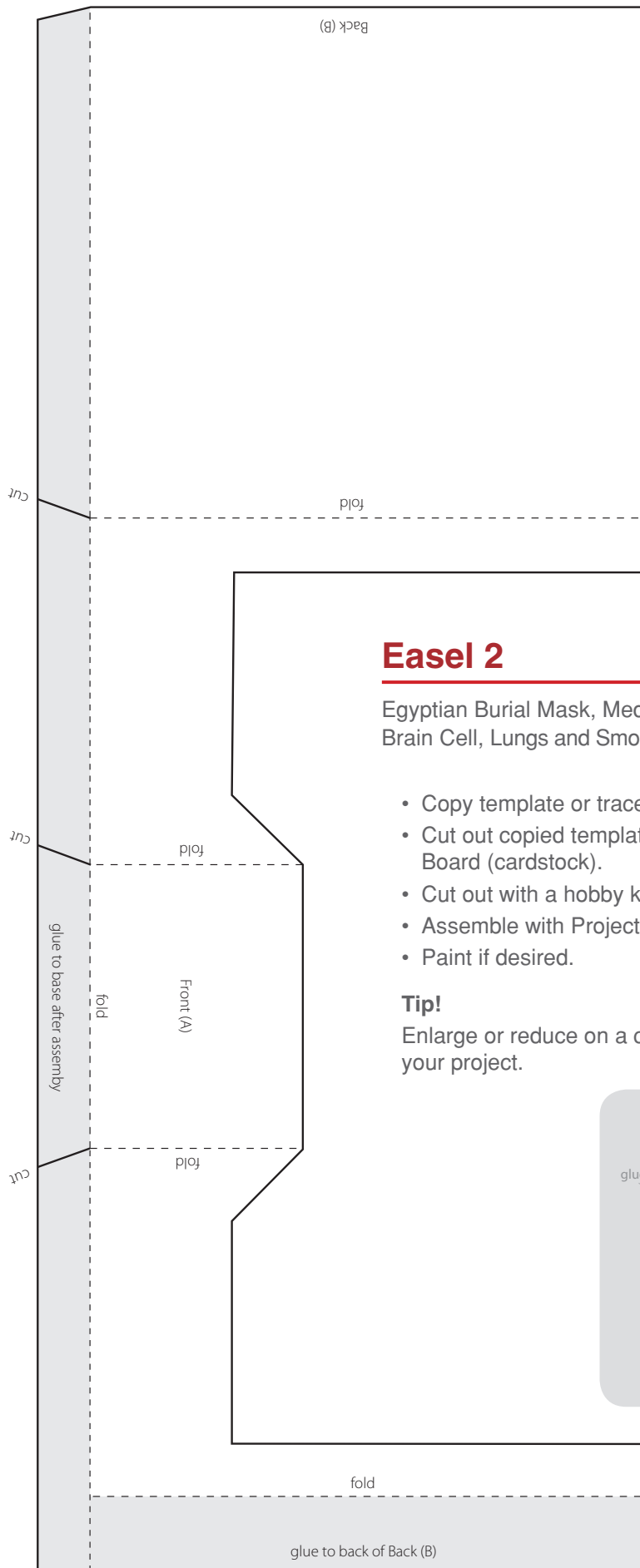
Egyptian Burial Mask, Medusa, Bacteria Cell, Brain Cell, Lungs and Smoking

- Copy template or trace on white paper.
- Cut out copied template and trace on foam core board, 1/8".
- Cut out with a hobby knife.
- Assemble with Project Glue.
- If using cardstock, make size adjustments.

## Tip!

Choose the size stand that best fits your project. (a=smallest, d=largest)





## Easel 2

Egyptian Burial Mask, Medusa, Bacteria Cell, Brain Cell, Lungs and Smoking

- Copy template or trace on white paper.
- Cut out copied template and trace on Construction Board (cardstock).
- Cut out with a hobby knife.
- Assemble with Project Glue.
- Paint if desired.

### Tip!

Enlarge or reduce on a copier to a size that best fits your project.

