



## Junior Jeweler Badge Activity Plan 1

**Badge Purpose:** When girls have earned this badge, they'll know how to make different kinds of jewelry.

**Program Essentials Link:** Science, Technology, Engineering and Math

**Fun Patch Link:** Jewelry Making

**Activity Plan Length:** 1.5 hours

**Girls Take the Lead:** While earning this award, there are many ways for girls to be leaders. These can be done by a small group or by individuals.

- Badge Buddies:
  - Before the meeting, talk to girls about the activities. Have buddies decide what they want to try or ask them if they want to try something different.
  - Buddies can assist adults with prep needed for activities.
  - During the meeting, they can help lead other girls through the activities. They should make sure everyone has what they need and feels included.
- Food Friends
  - Talk to girls about what the snack will be and how they can help.

**Customize It:** If your group wants to expand work on this badge or simply try different activities, go for it! There are many ways to earn this award, including: completing the activities as listed in the Junior Skill Building Badge set for *It's Your Planet—Love It!*, completing two of these activity plans, attending a council-sponsored event or customizing activities. Pick the one(s) that work best for your group. Girls will know they have earned the award if:

- They have viewed a variety of tools and traditions in jewelry making
- They have learned multiple jewelry making techniques
- They have made jewelry to share with others

### Tips and Tools

- Girls should never use knives, hot glue guns or sharp tools without an adult to help.
- Check out ways to stay safe using Safety-Wise at [GirlScoutsRV.org](http://GirlScoutsRV.org).
- Ensure that your activities are accessible to everyone. Ask in advance if any special accommodations need to be made. If you have questions regarding specific adaptations, please contact River Valleys at 800-845-0787.

### Resources

- This activity plan has been adapted from the Junior Skill Building Badge set for the *It's Your Planet—Love It!* Jeweler Badge, which can be used for additional information and activities.

## Getting Started

Time Allotment: 15 minutes

Materials Needed:

- Optional: Girl Scout Promise and Law printed out on poster board

Steps:

1. Welcome everyone to the meeting.
2. Recite the Girl Scout Promise and Law. Use repeat-after-me or say it as a group if girls know it by heart.

Girl Scout Promise	Girl Scout Law
<i>On my honor, I will try:</i> To serve God and my country, To help people at all times, And to live by the Girl Scout Law.	<i>I will do my best to be</i> honest and fair, friendly and helpful, considerate and caring, courageous and strong, and responsible for what I say and do, <i>and to</i> respect myself and others, respect authority, use resources wisely, make the world a better place, and be a sister to every Girl Scout.

3. Play a game so girls get to know each other better. Use the example below, if needed.
  - Pile Up: Girls sit on chairs in a circle. Choose a leader who will have a list of "yes" or "no" questions, such as "Do you have on brown shoes?", "Are you wearing a ring?", "Is your favorite color purple?" As the questions are asked, those that can answer "yes" move one chair to the right. Those that answer "no" don't move. Girls will end up "piled-up" on chairs.

## Activity #1: Recycled Zig-Zag Bracelet

Badge Connection: Step 3—Turn everyday objects into jewelry

Time Allotment: 20 minutes

Prep Needed:

- Collect foil snack bags and/or candy wrappers; clean, and cut them into appropriate size sections.
- You will need 25–30 wrappers or sections per girl. Any thin wrapper or bag will work, but it is important that all of the pieces for one bracelet be the same size and material
  - Large potato chip bags can be cut into 1½ x 4 inch sections
  - Starburst or tootsie roll wrappers can be used as is
  - Others wrappers can be adapted as necessary

Materials Needed:

- Foil snack bags and candy wrappers
- Scissors
- Rulers
- Paper clips to help with threading

Steps:

See the diagram at the end of this activity plan for more details.

You don't need expensive gemstones to make great jewelry. Just look around and you'll find what you need to create something unique and stylish. Lead girls through the steps below, demonstrating the steps as you go.

1. Start by making the chain links. Begin with folds going the long way, or "hot dog" folds. Fold the wrapper in half and then unfold, so you have a long crease going down the center.
2. Now, fold those edges in to meet along the original fold line. Fold the long way again, so the wrapper edges you just folded to the crease are completely inside.
3. Fold your new "link" in half the short way, or "hamburger" style, and then unfold it. Fold the two ends in to meet at this new center crease.

- The resulting V-shaped piece is one link. You should have two edges, each with one crease and no loose ends, creating a vertex at the center. The tops of the two arms of the V are endpoints. If the edges of the last fold you made (which are the first ones that want to unfold) were lined up with each other and attached at the vertex, you would have two loops of wrapper, through which you could weave another link.
- To weave the first two links, get the first link ready by loosening up the space in the loops without actually unfolding the last fold. Take the arms of the second link and put each through one loop of the first link. Use a paper clip if you have trouble getting through the loop and not one of the other folds. Slide the second link until the vertex is as close to the arm edges of the first link as possible.
- The second link's arms are now the loops for the third link's arms, and so on.
- To close, undo the last fold on the last link before threading the arms through. Thread them all the way through the first link, then fold the ends back over and tuck them in to finish.

### **Activity #2: Heart Anklet**

Badge Connection: Step 2—Make jewelry with metal

Time Allotment: 20 minutes

Prep Needed:

- Gather materials and supplies. The girls will need to share two kinds of pliers. If you don't have enough, you may want to have the girls do these activities in stations.
- If possible, make an example to show the girls.
- For information on using jewelry tools, check out this single page of tips: [www.domestic-divaonline.com/Site\\_1/How\\_to\\_use\\_Jewelry-tools-and-Techniques.html](http://www.domestic-divaonline.com/Site_1/How_to_use_Jewelry-tools-and-Techniques.html) or two sets of step-by-step directions on making loops at [jewelrymaking.about.com/od/wiretechniquesinfo/ss/050808.htm](http://jewelrymaking.about.com/od/wiretechniquesinfo/ss/050808.htm)

Materials Needed:

- Paper clips—five per girl
- Needle nosed and round-nosed pliers
- Heart beads with vertical hole—five per girl
- Seed beads
- Head pins—five per girl
- Jump ring and spring clasp—one each per girl

Steps:

- Flatten the paper clips with the needle nosed pliers.
- Make a small loop at both ends of every paper clip using the round nosed pliers.
- With the needle nosed pliers, bend angles and loops into each paper clip. They don't need to match; they'll actually look better if they don't.
- String a heart bead onto each head pin. Add a seed bead and use the round nosed pliers to make a loop in the top of the head pin.
- To attach the paper clips to each other, open the loop in one end of the first paper clip. Thread the loop of a head pin and the loop of another paper clip onto the loop you just opened. Close the loop.
- Repeat the last step until you've attached all the paper clips and head pins.
- Open the loop at the end of the last paper clip and attach the clasp. Attach the jump ring on the other end by using two pliers to ease the ring open and thread it on the end.

### **Activity #3: Origami Pins**

Badge Connection: Step 4—Create jewelry inspired by another culture

Time Allotment: 20 minutes

Prep Needed:

- Gather materials and supplies.
- Optional: Make a large diagram of folding steps for the butterfly. A good diagram of the butterfly can be found at [www.davidpetty.me.uk/mom/mom18.htm](http://www.davidpetty.me.uk/mom/mom18.htm).

Materials Needed:

- Origami paper—in squares of one to three inches for final pin; four inches or more for practice
- Bobby pins or pin backs
- Glue

- Craft sticks or rulers
- Toothpicks
- Optional: clear nail polish or acrylic spray

Steps:

For step-by-step instructions, see the diagram at the end of this activity plan.

1. Origami is the Japanese art of paper folding. Paper cranes are perhaps the most famous of all origami shapes, from the legend that someone who folds a thousand cranes and makes a wish will have that wish come true. Origami cranes can make a nice ornament or earrings, but you will want to practice first on larger paper before trying to make one small enough for jewelry. We are going to pick a more forgiving shape—a butterfly. It can be attached to a bobby pin as a hair pin or to a regular pin back.
2. If there is time, have the girls make one butterfly out of larger origami paper that is at least four inches by four inches. This will be more forgiving of mistakes as the girls practice.
3. See the diagram directions for making the butterfly. This involves a lot of pre-folding; that is, making many folds that will then be unfolded for the sake of making creases that will be used later. Remind the girls to make sharp creases, using the rulers or craft sticks to help make a clean fold.
4. The butterfly will tend to unfold. To prevent this, add small amounts of white glue to the insides of the layers making up the wings and the folds on the underside of the butterfly. Remove excess glue and press down with a heavy weight for a few minutes before proceeding.
5. The butterfly can be attached to the pin immediately. However, if you want you can add a protective finish using either a clear spray acrylic (used in a ventilated area) or a thin coat of clear nail polish. You can decide if you have the capacity to have the girls add the sealer coat and leave their projects for next time, take them home and seal at home or leave them for now while you put them away and apply a sealer next time. Keep drying projects in egg carton compartments labeled with the girls' names.

### Wrapping Up

Time Allotment: 15 minutes

Materials Needed:

- Optional: Make New Friends and the phrase from the Dutch Girl Guides printed on poster board

Steps:

1. Instruct girls in setting up a Friendship Circle. Have girls stand in a circle and hold their right arms out in front of their neighbor to their right, palm facing the center of the circle.
2. Each girl will have the right arm of her left-hand neighbor in front of her. She will not grab this hand. Instead, she reaches under it with her left hand to grab the right hand of the next person over, who has put her right hand in front of the person standing between them.
3. The goal is to have everyone holding the hands of the two people one away from them on both sides. They will have actually formed two interlocking circles.
4. Double-check that right arms are all on top and left arms are underneath.
5. Sing "Make New Friends."

Make New Friends		
Verse One	Verse Two	Verse Three
Make new friends, but keep the old. One is silver, the other is gold.	A circle is round, it has no end. That's how long, I will be your friend.	You have one hand, I have the other. Put them together, We have each other.

6. After the song, ask everyone to be quiet.
7. One of today's Badge Buddies and the person next to her should start the friendship squeeze by gently squeezing her neighbor's hand with her right hand. Both will need to start, since there are actually two interlocking circles, rather than just one. Then, those girls squeeze with their right hands. One by one, each girl passes the squeeze until it travels around the circle.
8. When the squeeze returns to the Badge Buddy who started, she pulls out her left arm and reconnects so that both of her arms are on top.

9. The Badge Buddy looks to her right; the person on her right now has two arms laced in front of her. Those two people— who are the Badge Buddy and the person two to her right—lift their joined arms up and over the head of the person to the Badge Buddy's right, ending with their arms linked behind this person.
10. This person can now lift her arm (and the arm of the person two to her right) up and over the head of the person who just did the same for her. The "weave" continues around the circle.
11. As the weave starts, everyone starts reciting the "link" phrase from the Dutch Girl Guides, repeating as many times as necessary to get all the way around the circle:
 

"I am a link  
in the golden chain  
of world Girl Scouting  
and I will keep my link  
strong and bright."
12. When the weave is finished, she says "Goodbye Sister Girl Scouts," and the girls let go.

### More to Explore

- Field Trip Ideas:
  - Visit a craft fair or local jewelry artisan.
  - Go to a museum with a display on rocks and minerals. Find out which minerals are used for jewelry, what they look like in their natural state, and where they are typically found.
  - Take a cave tour that includes information on the rocks and minerals found there and how the cave formed.
  - Visit a historic site that includes information on blacksmiths.
  - Visit a cultural festival where costumes include jewelry, and find out about their significance.
- Speaker Ideas:
  - Invite someone who makes jewelry, especially from found or natural objects, to your meeting.

### Suggestions

Do you have any suggestions to improve this activity plan? Do you have ideas for other possible badge-earning activities? Please email [GirlProgram@girlscoutsrv.org](mailto:GirlProgram@girlscoutsrv.org).

### Family Follow-Up Email

Use the email below as a template to let families know what girls did at the meeting today. Feel free to add additional information, including:

- When and where you will be meeting next
- What activities you will do at the next meeting
- Family help or assistance that is needed
- Supplies or materials that girls will need to bring to the next meeting
- Reminders about important dates and upcoming activities

Hello Girl Scout Families:

We had a wonderful time today learning about types of jewelry and are on our way to earning the Jewelry Badge.

We had fun:

- Making a bracelet from recycled materials
- Learning about jewelry traditions in another culture
- Working with metal tools and materials to make wearable artwork

Continue the fun at home:

- Share your own family's traditions around a particular piece or type of jewelry.
- Go on a hunt for rocks or other materials that could make a nice piece of jewelry.
- Look through the *Girl's Guide to Girl Scouting* with your Junior to find other activities you can try at home.

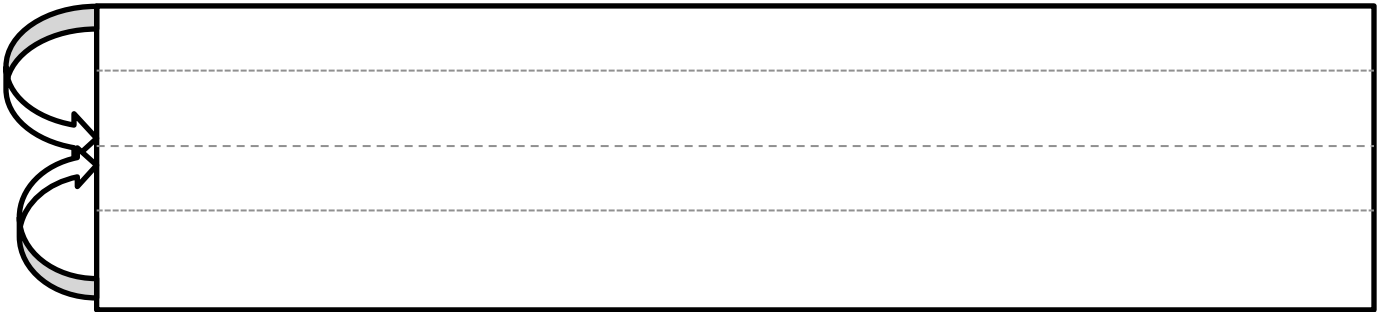
Thank you for bringing your Junior to Girl Scouts!

## Zig-Zag Wrapper Bracelet

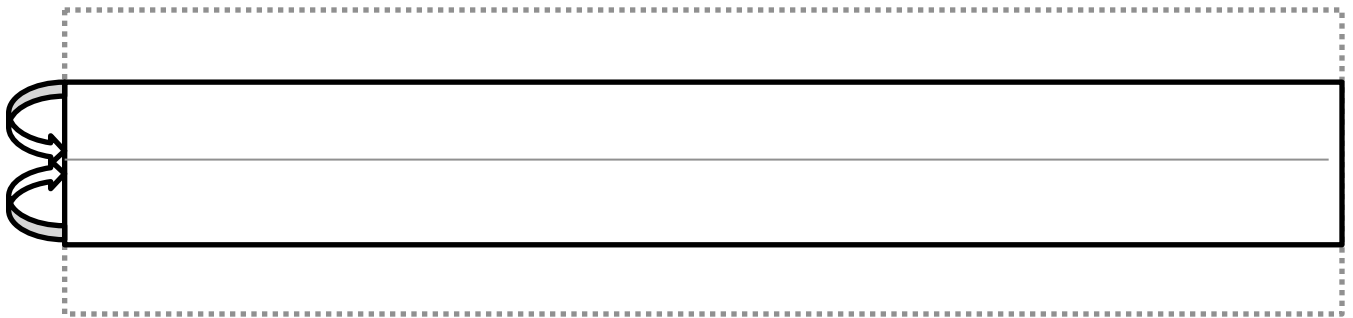
### Making a Link



Fold the wrapper the long way and unfold.



Fold the two edges to the center crease.



Fold the long way again, so that the edges that were folded to the center crease are folded entirely inside.

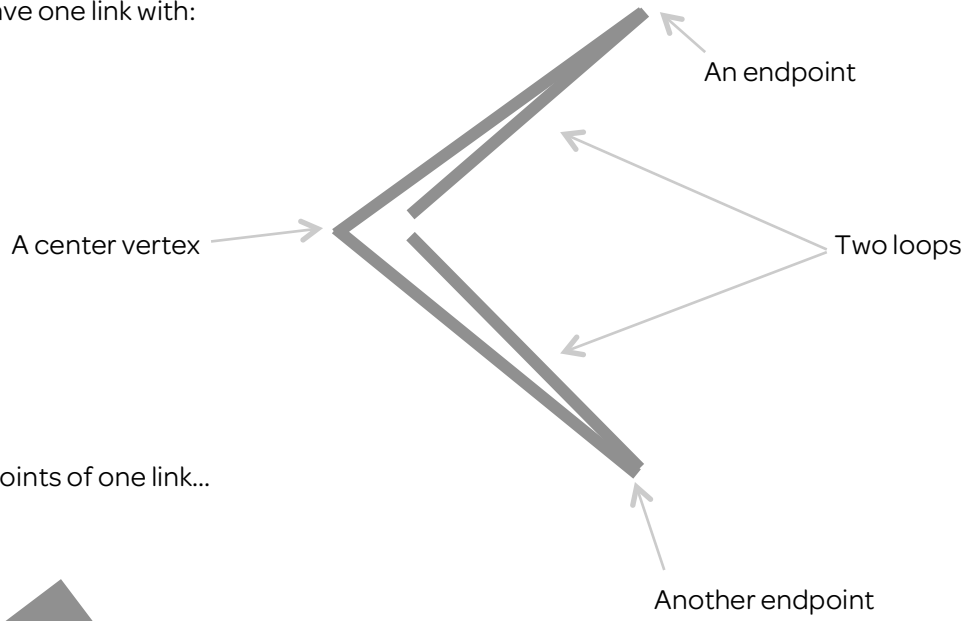


Fold the link in half the short way, and unfold

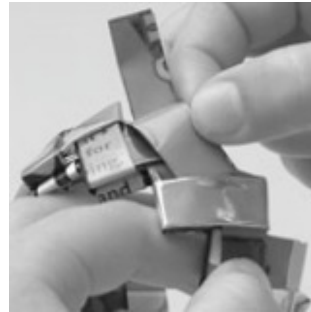
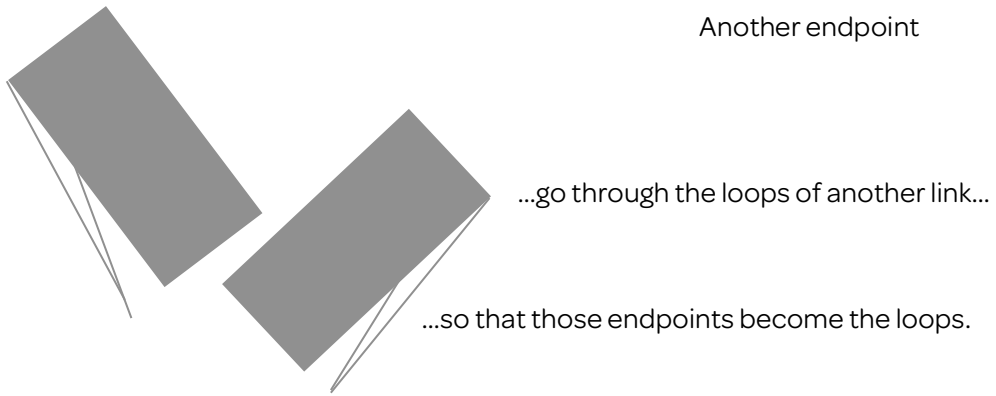


Fold the ends into the center crease.

You now have one link with:



The endpoints of one link...



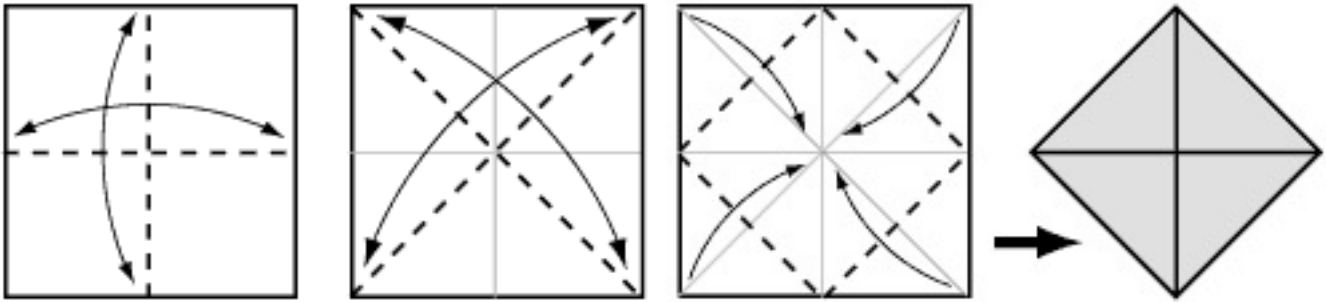
## Origami Butterfly

First stage: creases.

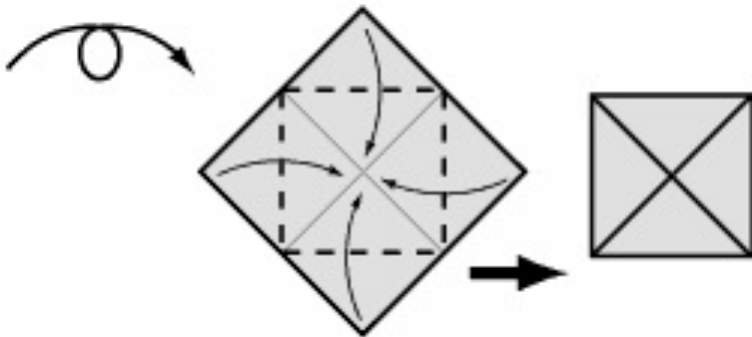
The first set of folds will be completely undone when you're through. The purpose is to put creases in the right places to make the later folds easier.

Start with the back (white) side of the origami square up. Fold in half both directions and unfold. Then fold diagonally both directions and unfold.

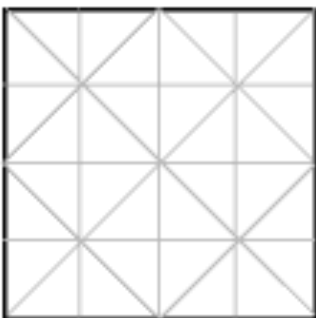
Fold all four corners in to the center. Crease well.



Flip the entire paper over. Fold these points into the center. Crease well.

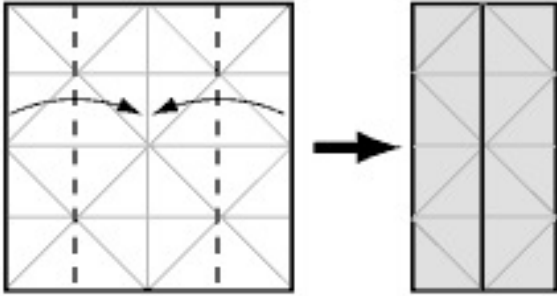


Unfold everything. You are ready to start the butterfly.



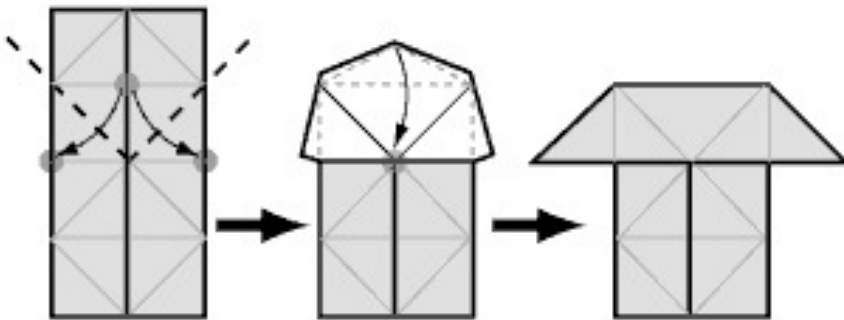


Fold the left and right vertical edges to the center line.

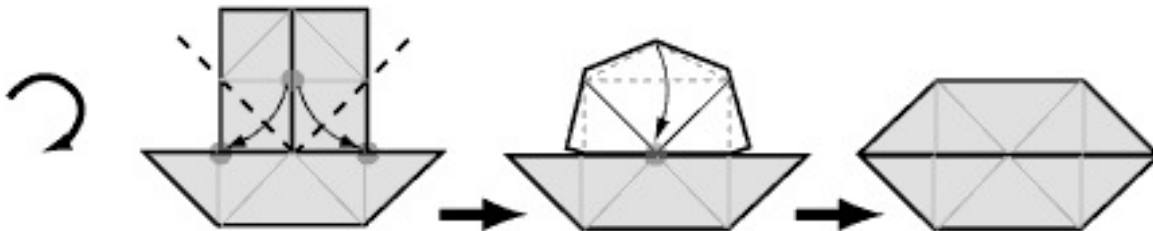


The next fold is more complicated to describe than to actually do. The creases you made earlier should make it easier.

Holding each inside edge from the point at the center, bring these edges out to the points shown. Then, fold the top edges downwards and flatten.



Repeat this fold on the other side.



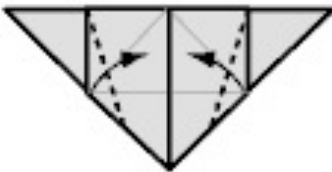
Fold the top half behind the bottom half. Notice that the original paper edges are all at the new top edge, while the bottom has only folded edges.



You now have two layers of paper in a boat shape. Take the top outside corners of just the top layer and fold them down to meet in the middle, pointing straight down. The top edges will line up with each other at the center line. The outline of your shape will be a triangle now.

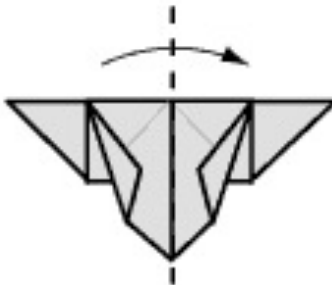


Now the top layer makes a sort of upside down house shape. To make the lower wings separate from the upper wings, put a small diagonal fold in two of the corners of this shape, where the walls and roof would meet. It doesn't have to be big, but try to make them the same on each side.

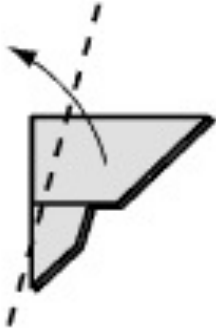


Now, the body. The body doesn't have to be big, either, but it does need to be at an angle in order to separate the bottom wing pair enough so it looks like a butterfly.

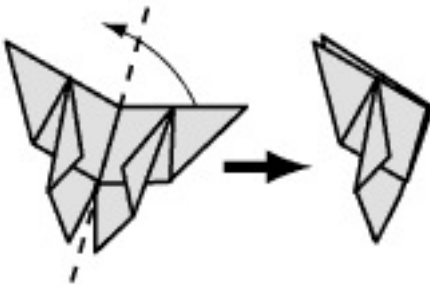
Fold the butterfly together along the vertical centerline.



Fold most of one wing back along a diagonal so that a small, narrow triangle is left behind for the body. The bottom wing section will not be needed at all.



Fold back the other wing to match and turn over, so the wedge for the body is on top and most of the folds are hidden.



Open it out. Your butterfly is finished!

