BUILD YOUR OWN

PRISMIC™

BEAR
LANTERN

COMPLEXITY

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INSTRUCTION BOOKLET

PURPLE LADYBUG®

INSTRUCTIONS: PRISMIC™ BEAR

INTRODUCTION

With this kit, you will create a 31cm (12.25") tall **PRISMIC™** Bear. This project could take 3-4 hours to complete.

For a video tutorial on making this **PRISMIC™** shape, please visit *www.plbfun.com/prismic*

READ ME FIRST!

PRISMIC™ shapes are created by folding and interlocking the included panels and inserting the USB-Powered LED string light inside the shape to light it up.

Before you start assembling panels, take some time to read these instructions and familiarize yourself with the various parts of the panels and the kit. This will make your **PRISMIC™** building much easier and much more fun.

WHAT'S INCLUDED

This **PRISMIC™** kit contains:

- **PRISMIC™** Panels
- Locking Pins
- LED light strings
- Mirrored Base

Panels

Each panel comes flat inside this package. Each panel has:

- Flat Edges
- Tabs
- Connecting Holes
- Fold Marks
- An Inside and an Outside

More on what this means below:

The panel images on these instructions are shown outside side up.

Some panels may look very much alike, but they are not. Be extremely careful to match up the panels to the instructions. A misplaced panel or connection will disrupt your entire **PRISMIC™** build, and you'll have to backtrack.

Fold Lines

On the surface of each panel, you'll see creased lines creating shapes. These are the fold lines, along which you'll fold or bend the panel.

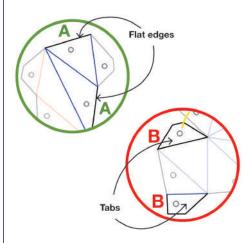The red lines are meant to be folded towards you as you look at the panel.

The blue lines are meant to be folded away from you as you look at the panel.

As for how far you bend each piece, they vary; Most require around a 15-45 degree fold.

Edges & Tabs

The edges and tabs of a panel are how the panels lock onto each other to create the shape.

The Flat Edges are the edges of the panel that do not look like a tab (identified in the sample image with an **A**).

The Tabs are the edges that protrude out of the main panel and look like a little tab (Identified in the sample image with a **B**). **TABS ALWAYS GO ON THE INSIDE!**
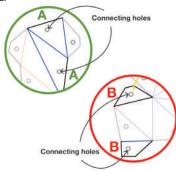
Tabs don't all look the same but are easy to distinguish from Flat Edges. If they are hard to distinguish, there will be a note on the instructions as to which is which.

TIP: A Tab will always look out of place on the outside of the PRISMIC™ shape.

Each Flat Edge has a matching Tab to connect to (**sometimes on the same panel, but most often on other panels**).

Connecting Holes

The black circles on the sample panel image are holes where you insert the connecting pins to connect Flat Edges to Tabs.

The instruction diagrams (whether it's an overall diagram, or a smaller section-specific diagram) will have lines between holes on the Flat Edges and their corresponding match on a Tab.

The connecting holes will have little plugs in them. They can be pushed out using the locking pins, or the tip of a pencil to get them out of the way.

Not every hole pairing will be indicated in these instructions, but once you start with the matched ones, the remainder are easy to figure out.

TIP: The holes are accurately placed. If a pairing looks like it matches up, but it isn't perfectly aligned, it's not meant to connect, as tempted as you may be. They probably connect to another panel in a step further down the instructions.

Locking Pins

The included plastic locking pins are how folded panels are connected to themselves and other panels, forming the **PRISMIC™** shape. Locking pins have a larger round end, and a pointy one.

Locking pins are always inserted from the Outside of a panel towards the Inside, going through the hole in the Flat Edge first (A), then the corresponding hole in the matching Tab (B). Use one hand to push the pin in, and the other to

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provide support from the backside of the hole you're pushing the pin through.

They require a little pressure to push through the holes. It's easier to push through one layer at a time. Push through the Flat Edge first, then the corresponding Tab. It is possible to go through both at the same time, but it does require more pushing force and doesn't really save time.
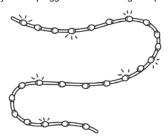
As you join the panels together, if you can't get one pin in, don't worry, it won't affect the final result. The surrounding ones will hold it in place. Just place the pin through the flat edge, and don't worry about getting it through the tabbed edge underneath.

LED String

PRISMIC™ shapes are lit up from the inside with USB-Powered LED Lights (USB Charger not included).

These strings are placed evenly inside the **PRISMIC™** shape during the final steps of the assembly and are locked in place when the final panel is attached.

They have a 1m (39") lead with a standard USB plug at the end. They can be plugged into an existing USB power port.
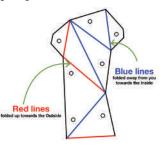

Tips on How to Fold / Bend the Panels

The diagrams are looking down on the panel with the *Outside up* and the *Inside down*.

As you fold the panels, regularly check against the panel layout on the instructions to make sure you have the *Outside* of the panel always facing you.

Following the diagram at each step, you can start folding or bending along the marked crease lines.
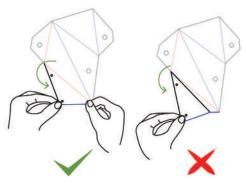

Red lines are folded up towards the Outside.

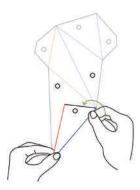**Blue lines are folded away from you towards the Inside.**

To fold each crease, secure one side of the crease between one thumb and index finger and use your other hand to fold the other side of the crease in the direction indicated.

The smaller creases will fold with one motion, whereas the longer ones may need you to crease a couple of times along its length until the panel starts to fold.
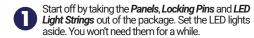
Make sure that the fold is consistent along the length of the crease, so the edge is nice and even.

Start folding at one end of the panel and work your way to the other side. When you reach the end of the panel, make any indicated connections with the **Locking Pins**.

GETTING STARTED

A **PRISMIC™** build can take some time and needs a clean and flat surface where you can lay out the panels and have enough room to work. A desk or large table is ideal.

1 Start off by taking the *Panels*, *Locking Pins* and *LED Light Strings* out of the package. Set the LED lights aside. You won't need them for a while.
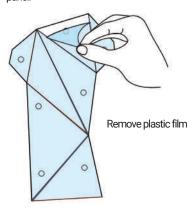
2 Find a safe place on your workspace to place the locking pins. You'll need these on each step, so it's a good idea to keep them within easy reach.

3 Make sure that each panel matches the location and shape exactly. Some panels look alike, even when flipped over. To make sure your project goes smoothly, match them exactly as laid out on this diagram.

4 The panels have protective film on both sides of the panels. You can remove it all now, making sure you place the panels back in the correct position before continuing. Alternatively, you can remove the protective film at each step.

Before you start folding and bending the panels remove the protective film from both sides of the panel.

Remove plastic film

5 Double check that you have the panels in the correct position before starting off, and if they are, it's time to get started with the assembly process!

💡 REMEMBER THE BASICS:

Remove protective film from both sides of the panel before folding.

Outside of the panel is facing you, the **inside** faces down as laid out in Step 1.

RED LINE = fold UP towards you

BLUE LINE = fold **DOWN** away from you

Flat Edges on **OUTSIDE** of Tabs, and tuck **tabs onto the INSIDE** of your **PRISMIC™**.

Push **locking pins INWARDS** (pointy end goes in).

If you need help, ask an adult to help out.
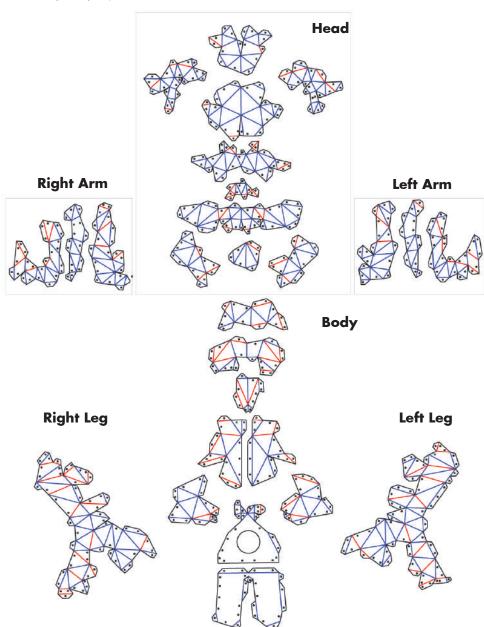
For each step, there is a main layout of all the panels indicating which to use for the step.

There is also a larger version of that same panel showing the fold lines and which Edges connect to which Tabs (if any on that panel), along with any additional notes for that step.
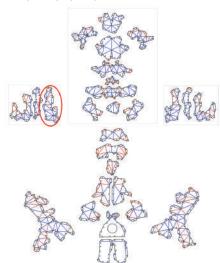
Step 1

● Take the panels and lay them out according to the diagram below. This will make it much easier to follow the steps for the instructions. This diagram will be shown in each step of the instructions and used to show you your progress and more easily identify the panels needed.
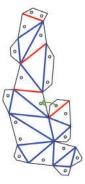

Head

Right Arm

Left Arm

Body

Right Leg

Left Leg

Step 2

● Using the highlighted panel

● Fold/bend the panel along the red and blue lines. Then connect the highlighted *Flat Edges* to the highlighted *Tabs* by matching up the holes (connected by lines below) and fitting a locking pin in place (this will help determine how far you need to fold/bend the lines).
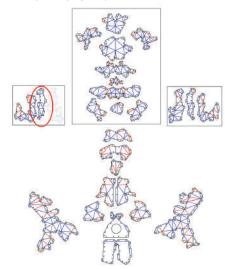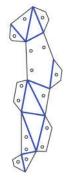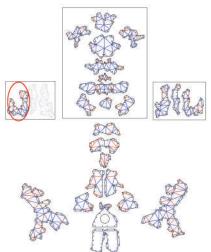


● You should have something that looks like this:
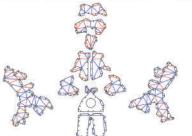

Step 3

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly. This panel does not have connections within itself.

● You should have something that looks like this:
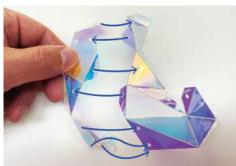
Step 4

● Join together the panels from the previous 2 steps creating the start of one of the arms.

● You should have something that looks like this:
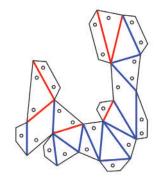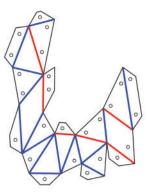

Step 5

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly. This panel does not have connections within itself.

● Once you have this piece folded and connected, you'll join it to the other 2 and create one of the arms on the next step.

● You should have something that looks like this:

Step 6

● Connect the panel from the previous step to the two panels from **Step 4**, and set aside. You've just completed one of the arms. Start by making the indicated connections then continue making connections all the way around to the end of the panel.

- Once you get about halfway through, make these connections to close the arm.

- You should end up with something that looks like this: A completed arm. Set it aside for now, you'll attach it to the body later on.
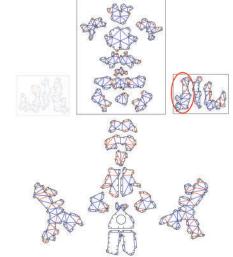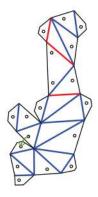
Step 7
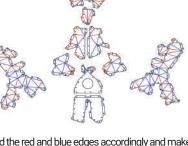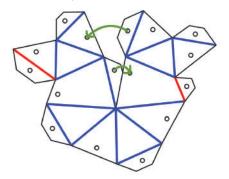
- Pick up the highlighted panel.

- Bend the red and blue edges accordingly and make the connections in green.
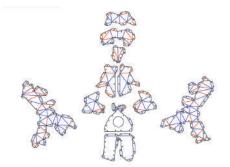

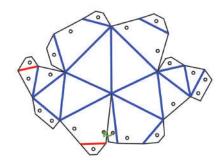- You should have something that looks like this:

Step 8

- Pick up the highlighted panel.

- Bend the red and blue edges accordingly. This panel does not have connections within itself.
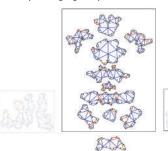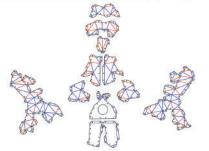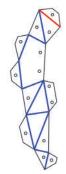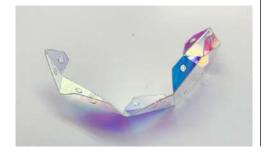
- Once you have this piece folded and connected, you'll join it to the previous one to start the second arm. You should end up with something that looks like this:

Step 9

- Connect the panels from the previous two step creating the start of the second arm by lining up the panels as shown, and making the connections between the panels.
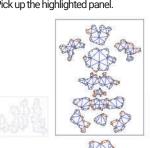
- You should have something that looks like this:

Step 10

- Pick up the highlighted panel.

- Bend the red and blue edges accordingly. This panel does not have connections within itself.

- Once you have this piece folded and connected, you'll connect it to the last two pieces and complete the second arm. You should have something that looks like this:

Step 11

- Connect the panels from the previous two steps creating the second arm by lining up the panels as shown, and making the connections between the panels.

- Once you get about halfway through, make these connections to close the arm.

- Once you've made all the possible connections, you'll have the second arm completed. Set it aside, you'll connect it to the main body on a later step. You should end up with something that looks like this:
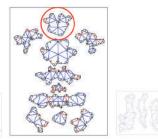
Step 12

- Pick up the highlighted panel.

- Bend the red and blue edges accordingly and make the connections in green.
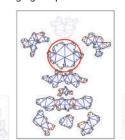
- You should end up with something that looks like this:

Step 13

- Pick up the highlighted panel.

- Bend the red and blue edges accordingly and make the connections in green.

- Once you have this piece folded and connected, you have completed the back part of the head. You should end up with something that looks like this:

Step 14

- Connect together the panels from the previous two steps by lining up the panels as shown, and making the connections between the panels.
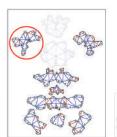
● You should end up with something that looks like this. This is the back of the bear's head.
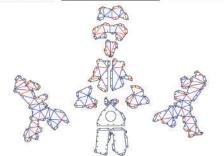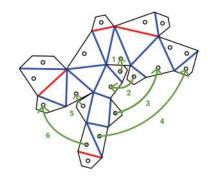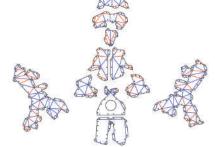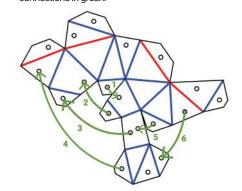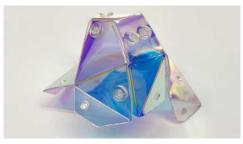

Step 15

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly and make the connections in green.

● Once you have this piece folded and connected, you have completed the right ear of the bear. You should have something that looks like this:

Step 16

● Connect the ear you just folded to the back of the head by lining up the panels as shown and making the connections between the panels (remember to pin from the outside in).
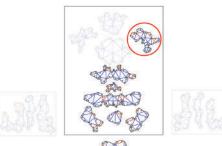
Step 17

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly and make the connections in green.

● You should end up with something that looks like this:

Step 18

● Connect the ear from the previous step to the head by lining up the panels as shown, and making the connections between the panels.
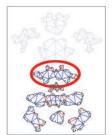
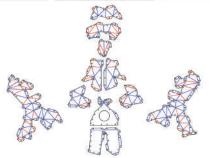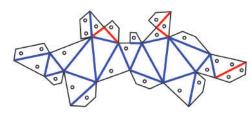● You should end up with something that looks like this: This back of the bear's head with both ears in place.

Step 19

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly. This is a transition panel, and it doesn't have any connections to itself, only to adjacent panels, which you'll do on the next step.

● This panel does not have connection within itself, but adds on the head on the next step. You should end up with something that looks like this:

Step 20

● Connect the panel from the previous step to the head. This panel connect to the head at the front (think forehead) of the head, right between the ears. The small one-hole tab ends up pointing down.
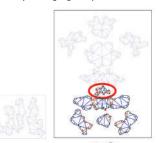
● You should end up with something that looks like this:
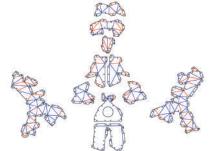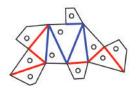
Step 21

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly.

● You should have something that looks like this:

Step 22

● Connect the panel from the previous step to the front of the head by lining up the panels as shown and making the connections between them.

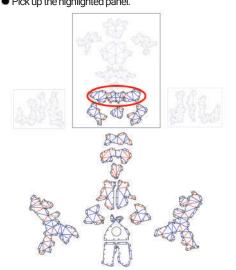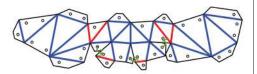● You should have something that looks like this:

Step 23

● Pick up the highlighted panel.

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- Bend the red and blue edges accordingly and make the connections in green.

- You should have something that looks like this (this is the nose and cheeks of the bear):

Step 24

- Connect the panel from the previous step to the front of the head by lining up the panels as shown and making the connections between them, along the entire length of the panel.

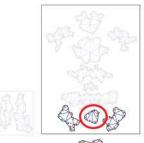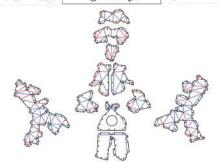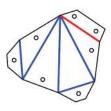- You should have something that looks like this:

Step 25

- Pick up the highlighted panel.

- Bend the red and blue edges accordingly.

- Once you have this piece folded, you have completed the bear's chin.

Step 26

Connect the panel from the previous step to the front of the head by lining up the panels as shown and making the connections between them.
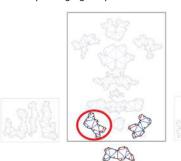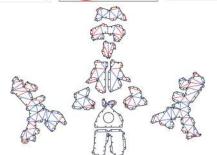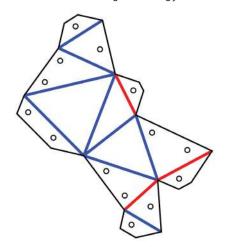

- You should have something that looks like this:

Step 27

- Pick up the highlighted panel.

- Bend the red and blue edges accordingly.

- Once you have this piece folded, you have completed the bear's left cheek.

Step 28

● Connect the bear's left cheek from the previous step to the face by lining up the panels as shown and making the connections between them.

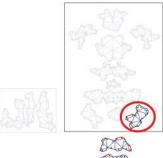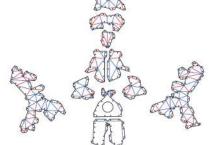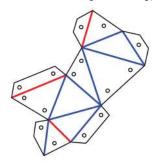● You should have something that looks like this:

Step 29

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly.

● Once you have this piece folded, you have completed the right cheek. You should have something that looks like this:

Step 30

● Connect the bear's right cheek from the previous step to the face by lining up the panels as shown and making the connections between them.

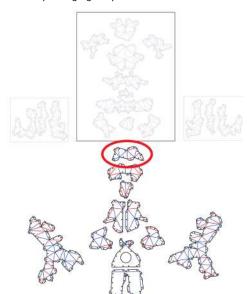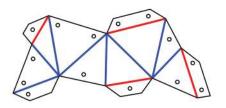● You should end up with something that looks like this:

● With this last piece in place, you've completed the bear's head.

Step 31

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly.

● Once you have this piece folded , you have completed the top of the bear's chest. You should end up with something that looks like this:

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Step 32

● Connect the panel from the previous step under the neck by lining up the panels as shown and making the connections between them.

● You should end up with something that looks like this:

Step 33

● Connect the right arm from **Step 6** by lining up the panels as shown and making the connections between them.

● You should have something that looks like this:

Step 34

● Connect the left arm from **Step 11** by lining up the panels as shown and making the connections between them.

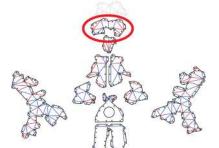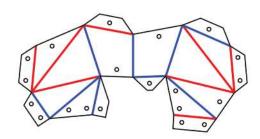● You should end up with something that looks like this:

Step 35

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly.

● You should end up with something that looks like this:

Step 36

● Connect the panel from the previous step under the chest by lining up the panels as shown and making the connections between them.

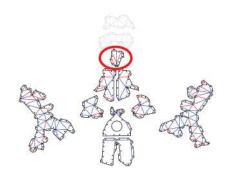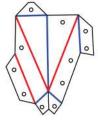● You should end up with something that looks like this:

Step 37

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly.

● You should end up with something that looks like this:

Step 38

● Connect the panel from the previous step under the chest by lining up the panels as shown and making the connections between them.

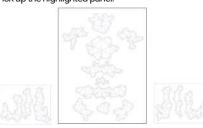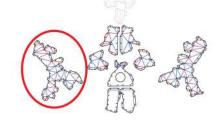● You should end up with something that looks like this:

Step 39
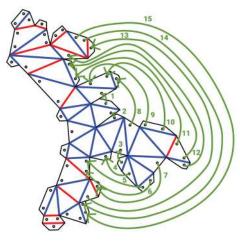
● Pick up the highlighted panel.

● Bend the red and blue edges accordingly and make the connections in green.

● Once you complete the first 8 connections, the leg should look like the image below. Continue making additional connections to close the leg.

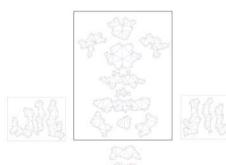● You should end up with something that looks like this:

Step 40

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly and make the connections in green.

● Once you complete the first 8 connections, the leg should look like the image below. Continue making additional connections to close the leg.

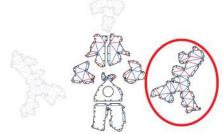
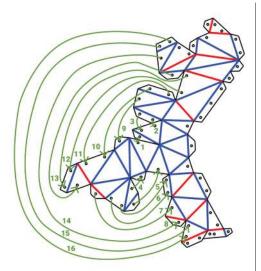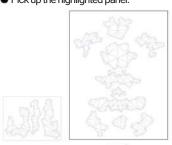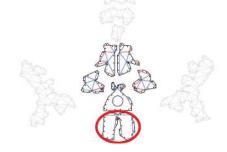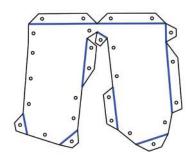● You should end up with something that looks like this:

Step 41

● Pick up the highlighted panel.

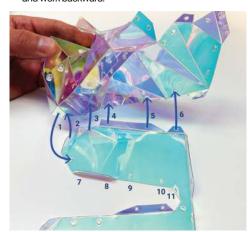● Bend the red and blue edges accordingly. Make sure the bends on this one are 90 degrees.

● Once you have this piece folded and connected, you have completed the bottom part of the legs. You should have something that looks like this:

Step 42

● Connect the leg from **Step 39** to the panel from the previous step by lining up the panels as shown and making the connections between them (remember to pin from the outside inward). Start at the front of the foot and work backward.

● You should end up with something that looks like this:

Step 43

● Connect the leg from **Step 40** to the other leg and bottom by lining up the panels as shown and making the connections between them (remember to pin from the outside inward). Start at the front of the foot and work backward, doing the inside of the leg first, then the outside.

● The middle piece between the legs has two holes. Use the lower one to make that connection. You should end up with something that looks like this:

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Step 44

- Connect the legs to the main body by lining up the panels as shown and making the connections between them. Start from the middle and work your way to each side until finishing the last connections right under the arms.

- Before you close under the arms, it's a good idea to put pins in all the flat edges around that area first, before connecting to the tabbed edges underneath (if you can't make a connection, it's okay to leave it unpinned).

- You should end up with something that looks like this:

Step 45

- With your **PRISMIC™** Bear nearly complete, Flip the bear over so that the opening on the back is facing you. Unbundle the light strings and loosely spread them throughout the inside of bear.

- Take one of the loose bundles of lights, and place them into the head of the bear, making sure they're spread out enough so they don't slip back down the neck.

- Then unbundle the second coil of wire, and place a few loops into each of the arms first, then a few loops into each of the legs, and drop in the rest into the main body space.

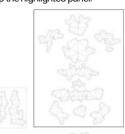- You should end up with something that looks like this:

- Leave the main wire coming out the bottom for now. You'll secure it at a later step.
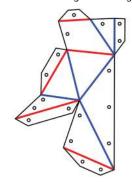
Step 46

- Pick up the highlighted panel.

- Bend the red and blue edges accordingly.

● You should end up with something that looks like this:

Step 47

● Connect the panel from the previous step to the back of the bear by lining up the panels as shown and making the connections between them.

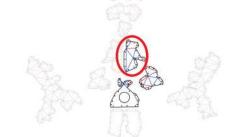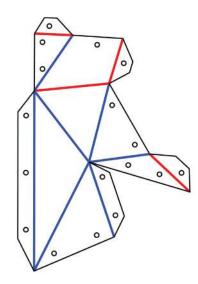● You should end up with something that looks like this:

Step 48

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly.

● You should end up with something that looks like this:

Step 49

● Connect the panel from the previous step to the back of the bear by lining up the panels as shown and making the connections between them. Start at the top and work down the right side, and finish off by doing the connections right down the middle of the back.

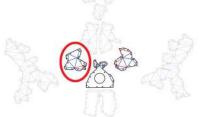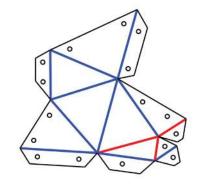● You should end up with something that looks like this:

Step 50

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly.

● You should end up with something that looks like this:

Step 51

● Connect the panel from the previous step to the back of the bear by lining up the panels as shown and making the connections between them.

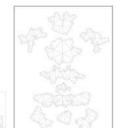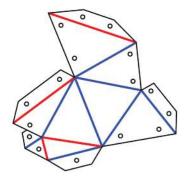● You should end up with something that looks like this:

Step 52

● Pick up the highlighted panel.

● Bend the red and blue edges accordingly.

● You should end up with something that looks like this:

Step 53

● Connect the panel from the previous step to the back of the bear by lining up the panels as shown and making the connections between them.

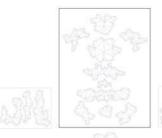● You should end up with something that looks like this:

Step 54
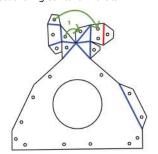
● Pick up the highlighted panel.

● Bend the red and blue edges accordingly and make the connections in green to form the tail.

Step 55

● Connect the base plate with the tail to the rest of the body by lining up the panels as shown and making the highlighted connections.

● Start making the connections in the tail first. Once the tail is connected, tie a simple knot on the thick part of the LED light string near where it meets the thin part.

● Tuck the knot inside the panel and secure the wire as shown before continuing on with the connections around the base piece (use the access hole to reach in and finish the connections).

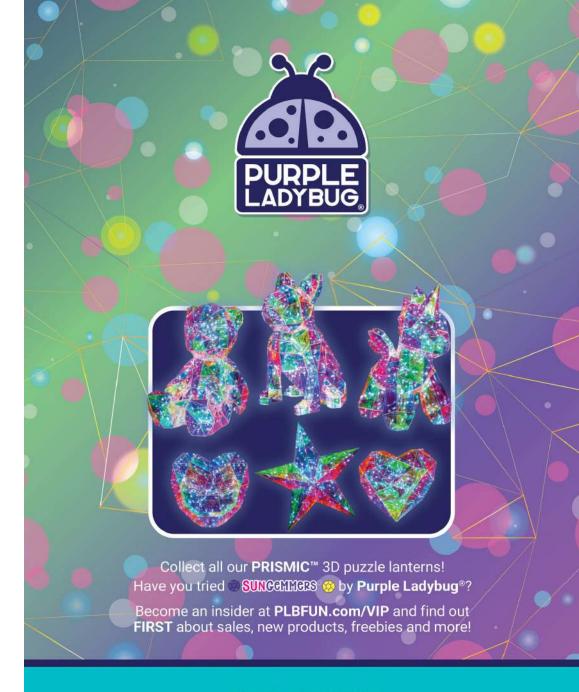● You should end up with something that looks like this:

Congratulations! You've finished your **PRISMIC™** Bear. Plug it in to any existing USB plug and enjoy your creation!

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