

I'm not a bot



























This instructable is one of two parts detailing how to build an arc reactor and an iron man mask. Both work together but are written as separate instructables for clarity. This part is for the Mask and you can find the Arc Reactor here: . You can buy these masks relatively cheaply all over the internet but nothing beats that hand made look. Again I work best when I have a goal in mind and something to copy so I set out looking for shots of the Iron Man mask. The picture included on this page gave me the most information about the design and was the key to developing my own mask. I wanted to create something that fitted my own face well but also wanted it to be smooth all over with no obvious joins in the mask, it proved quite tricky for me but now I've worked out the details it should be easier for anyone else wanting to give it a try. I'm pleased with the results and with hindsight don't think I would have done anything differentlyUpdate - August 2009: Still lots of interest in this one too, sadly I don't make these because they take too long making them very cost ineffective for you. People also keep telling me they are having problems with the templates so I've put them on my own site too, here is the link and you'll have to forgive me because the page is very new so don't expect too much from it. [Molder Mask.pdf](#) For this mask you will need: Cardboard to provide a solid front and back to the mask, Glue for holding the paper together, Newspaper for adding bulk in a paving mache style, More glue, I used a 2:1 PVA and water mix for paper mache, Gold paint (I used gold spray for that even finish) More white LED's to illuminate the eyes. Wire and solder to add power to the mask. A connector, to draw power from the arc reactor. Elastic, oh how I hated adding elastic round the back of the mask but it does the job. Inset photo here, I must go collect some of these things and take a photo, I'm sure you guys can just imagine this stuff in the meantime. This was perhaps the most challenging part of the mask. I knew I wanted it to be smooth all over and that means making the mask from a single piece of cardboard (or as few joins as possible). To avoid the whole thing getting totally out of hand I decided to only make the gold parts of the mask. I'll let someone else work out how to do the whole suit. I took my time to draw a template for the mask, knowing that I would need multiple copies of it to complete the mask. I ended up with 5/6 parts for a complete mask (5/6 will be explained shortly). I headed off to the photocopier to save myself some effort and get some perfect copies. These would be better copied onto card so feel free to scale and print this template to your hearts content. There are two main parts, the forehead and the faceplate. To get the curvature of the forehead I had to separate the edges and attach them separately. This adds strength to the design and because the seams are right on the corners they are barely noticeable. The faceplate has some nice curves which help to shape the face but ultimately do nothing in the way of strengthening it. The jaw on the faceplate will be separated for the top layers of the mask but left on for the bottom layers (hence 5 or 6 pieces) The images show the mask cut and assembled although this is discussed more in the next step. This mask starts by creating a base layer of card which is slowly built up to something sturdier and then it is topped with another layer of card to give a smooth finish. The bottom layer was cut and held into the desired shape by fixing it to my handy face mask. This should be a full mask with the jaw attached to provide a full length base. Once you have that base it's just a case of adding layers of newspaper and glue. I added 4 in total but just keep adding them until the mask seems thick enough. One final touch for this base is to paint the mouth area black. When you add the top layer to the mask this area will show through the gap between the jaw and the faceplate so make sure you give it a good covering of a nice solid colour. This top layer is all important and care must be taken with it. This is the finished product that goes on the outside of the mask so you dont want any blemishes or marks. I took my final template drawn onto some cardboard and I assembled it to the standard shape. From there I sprayed the whole thing with gold paint to give it a nice metallic finish. This top layer was then attached to the base mask using glue. The two masks will be slightly different sizes. Just cut away any excess on the base mask with a pair of scissors. Where the mouth doesn't quite sit flat against the base you will be able to see the black area that you painted before. This adds a level of depth to the mask that I rather like. A piece of elastic was added to the far left and right points of the mask to hold it onto my head. I honestly thought about gluing it to my face for the evening but for once common sense got in the way of a great costume. I never intended to add eyes to this mask, I make too many masks that you just can't see out of. When it got to this stage I realised that the mask actually needs it. The eyes on the movie mask are white with illumination. In the real world this translates to white paper with white LED's shining at it. I took the same white LED's that I used in the Arc Reactor and made two pairs of lights, each with 2 LED's and a 180 Ohm resistor. This allows me to drive the lights from the same battery as the reactor. Each light pair was glued to a small piece of card that allowed me to position the lights in the mask before I committed to sticking them into it. A sheet of white card was then placed over the back of the eyes and it was all stuck in with tape. The wire to provide power ran across the mask and out the back where the elastic ran. From the back of my head it ran into my shirt where it was connected to the arc reactor. Care was taken with this connector, I used a very loose fitting connector with mating pins. If the mask is ripped off for any reason it is the connector that will separate rather than the wires from each other or my head from the rest of my body. Photos of this to be added when I get home tonight. The mask is effectively finished in the previous stage but as mentioned before it's not just the mask that makes the costume. This mask connects to the arc reactor and also draws power from the 9V battery in my pocket. The T-shirt was bought from the local store and the combats were my own already. Ok, so I spent most of the evening with the mask up so that I could talk and drink but that's not the point, I made another great costume that I'm chuffed about. Insert more jokes about the lack of a well formed body here... :D(Honestly it's just a bad angle, I find I have 360 of them) Want to own an Iron Man Costume? Well Unless you're a Genius, Billionaire, Playboy, Philanthropist, you are out of luck. But don't fret here's a chance to own a Stark's Industries property, well not exactly, but you get my point. Follow our instruction guides for noobs to learn the basics and advance methods of making your own Iron Man Helmet, Armor, and Chest Piece. Check out below Download includes PDF Pattern Guides for Tracing, Guide to several materials in Making the Iron Man Armor and Helmet, including Paper, Resin, Fiber Glass. Includes 5 Videos Step-by-Step Tutorials. \*Bonus, includes guide how to make War machine armor for noobs and Batman the Dark Knight suit. WARNING!!! Please do not share our guides to anyone. This download is FREE, just complete a quick survey and it should start. This is something we worked hard for and we appreciate if you just link up if you want to share the files. THANK YOU!!! DOWNLOAD HERE This file has been downloaded 1647 times \*Update: Now includes the how to make the Iron Man, Mark XLII (42) Armor guide. Iron Man 3 DOWNLOAD HERE This file has been downloaded 1647 times \*Learn how to make iron man mask using cardboard in very easy way. This Iron man faceplate which some call as iron man face mask is made from cardboard. This is functional as it can open and close like the real one, the only problem I found is as i have large size head it didn't fit me. Please take care of this factor when you are making this. To make it easier i have given free Cut out Cardboard Iron Man Helmet template in pdf. You may also like our Miles Morales Mask from Spiderman from older posts. Materials to make Iron Man Mask Cardboard, Templates printout or hand drawn, Paint, Tissue papers and paper glue. You can use common colors like silver and red but i chose gold and red. For mechanism i use new syringes and irrigation tubes. Yes, These are the materials with which you can make this faceplate. We will start by Taking printout of templates. Iron Man Helmet Template PDF download free You can check for templates here. If you don't want to print and want to customize it on your own you can do it too. Others who are not good in designing can take copies of these Templates. Building Phase 1 At first we will start by making front face plate that opens and closes. To do this use template numbers 1 and 2, I have given numbers of template in order. When you are building specific parts this will guide you. So Cut this paper pieces and stick on to pieces of keyboard. To avoid confusions i have add numbers in cardboards too. Building Phase 2 Once you have your face plate you can start to continue with templates 3 and 4 and face plate sides. Note: To retain the shape at the start everything will be stick together using gum tape. Later once we have the perfect shape we can cut this part. You may find it as lot of pieces as everything is in order you can follow up easily. If you have any confusion here you can check the video which is given at end. Hardening Iron Man Mask After you have all the pieces together you can harden them, To do so we will be using tissue mix with paper glue. Use paint brush to cover entire surface with tissue. It takes some of your time but keep patience in doing so. After everything is complete allow to dry which takes entire day. At the end you will have hard shell which is ready to have some colors. Painting Before painting cut the face shell using cutter It is very easy, Just cut across the sides where you added gum tape earlier. To give gold color i made use of paint specially made for objects you can find in hobby shop and rest of part with red fabric paint. I would not recommend to paint inner parts as it is not visible to outside. If you want to you can. Adding Mechanism To open and close the face plate i made use of new syringes and small irrigation tubes. Just fill it with water and have a mechanism such that when one end is pushed inside other comes out and when it is pulled back it goes in. This mechanism is add to face plate part. Use hot glue to attach syringes and allow some time to dry completely. Here you should have water tight seals as it should not break during working. That was all about making iron man mask, if you have any questions please do ask in comments Working video of Iron Man Helmet For working of this Iron man helmet consider watching this video 26 August 2021 by Sparsh Mahajan 9052 0 0 Iron Man is a 2008 American superhero film based on the Marvel Comics character of the same name and also a part of the Marvel Avengers featured in the latest Movie Avengers End Game. When an industrialist is captured, he constructs a high-tech armoured suit to escape. Once he manages to escape, he decides to use his suit to fight against evil forces and save the world. So, today I am going to make Iron Man Helmet mask using cardboard! Hope you will enjoy this craft too. DIY Iron Man Helmet Mask Matched Content AD Time needed: 30 minutes. Iron Man Helmet Mask Shape: Let's start with the process, take a piece of cardboard and fold it in half. Draw the helmet mask template using pencil on it. Next, cut out the template from cardboard with the help of scissors. Face Shape: Now place the ruler on two sides of the cardboard to fold it. Then, cut two slits. After that, overlap the slits and paste it with the help of fevicol. Our face shape is ready now! Helmet: Join the cut from upper portion too with fevicol. Then insert a thin strip of cardboard beneath it and cover the entire upper portion. Now, take another thin strip of cardboard and place it at the back side with the help of fevicol or cello tape. Painting and final touches: Our helmet is ready, let's paint our helmet. First, cover the helmet with newspaper or paper napkins using fevicol mixed with little water. Let it get dry. Then, finally start painting it. You can also use black marker to give it final touches. Hurray, your Iron Man Helmet is ready. Try making this at home and share your pictures with us on our FACEBOOK GROUP. I love to create new stuff - art, craft, stories, etc. and I love to LEARN!!! Felt superhero masks are sure to delight your little superhero! This step by step tutorial includes both sew and no-sew directions for Iron Man, Captain America, Hulk, Thor, Wolverine, Batman, Batgirl, and Spiderman masks. As you know if you follow regularly, Carter just turned the big 5! We had his first friends birthday party this weekend to celebrate. Being the DIY addicted mom that I am, I immediately went to Pinterest to find a few ideas for his Superhero themed birthday party. I found this awesome Felt Superhero Masks tutorial with free templates from Cutesy Crafts. Originally the party was supposed to be just Avengers themed, but we expanded a little because my son loved all the masks. We ended up making Iron Man, Captain America, Hulk, Thor, Wolverine, Batman, Batgirl, and Spiderman. I had felt left over from another project, so I just had to get a few additional colors and some elastic. The original post has a great tutorial, so check it out when you get the templates. I'll go over the basics and some tips here though. Felt Superhero Masks Supplies: 1. Craft felt, colors listed for each character: Iron Man: red and yellow Captain America: blue and white Hulk: green and black Thor: cream and grey Wolverine: yellow and black Spiderman: red Batman/Catwoman: black Batgirl: pink 2. Thread in coordinating colors with your felt 3. Elastic - I used 1/4" elastic cut into about 12" lengths 4. Marker for drawing on Spiderman and Thor details 5. Templates for masks. \*Some supplies links may be linking to affiliate links on amazon.com or other trusted retailers. No Sew Note: I really considered not sewing these and just gluing them together. With sewing they are really durable though, so if you decide to use craft glue, I would suggest still sewing the elastic in. You could hand sew the elastic if you don't have a machine. First I cut out all of my templates and all of my felt. When you cut out the templates, you'll want to make two copies of many of the templates, one for the outside of the mask shape and one for the details. I traced the templates on to my felt with a pen, except for the black felt where I used a white crayon. I did double layers of each of the masks so they were sturdier. Some had three layers with the overlay details. I started with Batman as my practice mask because it was the easiest, without any additional details or overlays. I pinned together 2 pieces of black felt cut to the template with the ends of the elastic in between the two pieces of felt. Sew around the mask keeping fairly close to the edge of the felt. Sew around the outside, then around the eyes. I trimmed up the edges afterward where I wasn't sewing close enough to the edge. For other masks that had details on them, I sewed the details on first and then sewed the top and bottom of the mask together. This required quite a bit of thread switching on my machine, but I tried to strategically do all of one color across all masks where I could (like sewing Batman, and then the details on Hulk and Wolverine) before switching to the next thread color. Every time I get my machine out, I have to get the manual out to remind myself how to thread it. After this project I think I'm a pro! Here are a few examples of how I sewed the details on along with the backs. For Hulk, I sewed the eyebrows on the top piece of green felt first just with a straight line down the middle. Then I pinned together the back piece of green felt and the hair onto the top piece. I sewed the hair on with black thread while also sewing all the pieces together at the top. Then I switched my thread to green and sewed around the rest of the mask and eyes where I needed to sew the top and bottom pieces together. With Hulk I could have probably used black thread all the way around since the green felt was dark. For Iron Man I pinned together the yellow overlay on top of the top and bottom red felt pieces. Then I sewed around the yellow. I changed to red thread and finished the small top and side areas that only had red exposed. I added my elastic when I sewed the red part. I made about 25 masks. I wasn't expecting quite that many kids at the party, but I wanted Carter to be able to have one of each, and I wasn't sure which masks would be the most popular. Thankfully there wasn't a lot of fighting at the party over the masks. I had a small fear of that after I had finished them all and only had 3-4 of each! Here are a few pictures of Carter and my nieces modeling the masks when I was in the middle of working on them. I'll share pictures from the party later this week. I will say that the masks were a huge hit with all the kids! Thank goodness, as making so many of them took a fair amount of time. Well worth it though in the end when the kids were having so much fun with them. These would make a great gift for a superhero loving kid or for a Halloween party at school. Tags: avengers birthday crafts diy felt masks super hero Superhero Iron Man is a fictional character from the Marvel universe, who is pretty famous among people from all age groups. People love his technology and his suit. This instructable guides you on how to make an Iron Man helmet from scratch at home.CRAFT SUPPLIES:Cardboard Sheets (not more than 0.5 cm thick) if corrugated better. Old Newspapers White sheets of paper Paints: Crimson Red Metallic Gold Metallic Silver (optional) Transparent Tape 12 small rectangular magnets and 2 small round neodymium magnets. Buckram (or you can also use some stiff cloth). Size: 1 meter by 1 meter will be more than enough for all sizes Fine plastic net (5 x 5 cm) 2 safety pins ELECTRONICS:1 k ohm Resistor (you can even use up to 3k ohm) 7 white led lights (you can use your favorite color) 1 switch 1 9-Volt Battery 1 9-volt battery connector A few connecting wiresSoldering IronSolder Wire A ruler A pair of scissors A thin marker pen A pencil and Thick flat brushesMeasure your head diametrically and print out the above template such that the 2 opposite sides match the measurement you have taken as shown. Try to take it 2 cm longer so there is space for padding.Now print out the template according to your head measurement and paste it on the cardboard sheet using some glue. Cut out the template form the cardboard sheet carefully using craft knife. Cut out the faceplate marked with YELLOW color. Cut out the rest RED part. Now fold along the BLUE lines. Curve the faceplate to fit the rest of the helmet. Your basic structure is ready. You can also add any personal details if you want. SOURCE OF TEMPLATE: out 4cm in width sheets of Buckram or any other stiff cloth material with length equal to the side of your head measured in step 3.Use as many sheets as you want.Now paste these sheets with the help of craft glue onto the sides of the top part of the helmet.Cover any space between the strips with the help of small segments of the material.You can even use thin foam for this purpose.Add magnets on the shown locations so that your faceplate and the helmet can stick properly.Please make sure that opposite poles of the magnets are facing each other so that they attract and try to keep the same pole configuration everywhere.Mix equal parts of glue and water in a bowl and tear the newspaper in small pieces.Now apply the mixture on the faceplate and whole helmet separately and paste newspaper fragments onto it.After the first coat dries, repeat the above process multiple times to give the required strength to the whole helmet.During this process cover the helmet entirely inside and outside both.Do apply extra coating on the hanging flap above the faceplate to make it stiff.Cut the plastic net into 2 rectangles of equal dimensions and paste them on the eyes from behind the faceplate of the helmet as shown in the figure.Make a pocket on the inner side of the helmet using some cloth to hold the 9V batteryAdd a 9V battery connector to the upper arm of the faceplate using some glue and stick some neodymium magnets on the connection points. On the upper part of the main helmet just above the place where you have added the magnetized connector add some safety pins or any subsequent material to act as touch points. Stick them either by using some glue or screw them into place using small screws. Adjust them such that they touch every time you stick the faceplate. Now make an array of LED's by soldering them in parallel with each other. Don't forget to add connecting wires on negative and positive terminals of the battery. Now inside the faceplate add a switch and connect it the array of LED's you made. Now stick the array of LED's to the faceplate just above the eye slits using transparent tape. You can also add paper tape to diffuse the light produced by the LED's. If the wires stick out you can glue them using Hot Glue. First cover the whole outer surface of the helmet with blank white paper pieces using the glue-water mixture used in step 6Paint the faceplate with a metallic gold color Paint the rest with iconic crimson red color You can add any details if you want for example, I have added mark 85 silver on sides You can then outline the details with a pointed marker You can also coat it with clear epoxy resin to give it a more metallic look.Wear the helmet, turn on the lights and roam the streets or play in your house, perfect for every occasion whether it be Halloween or a house party you'll be recognizable everywhere.Please give it a try and for any suggestions you can use the comments section. Hello people of Instructables, today I'm going to show how to make Ironman's helmet out of cardboard.I think this is Ironman helmet number 8, that I built. I have the whole suit made of cardboard. (see picture)So let's start our build!!1- Download Pepakura from Here.2- Download the helmet's template. (Ironman's Helmet mark 42.pd0)3- Open the template with pepakura.4- Measure the height of your head from top of your forehead to under your chin.5- Click on 2D Menu -> Change Scale -> Set Scale then entre (the numbre you find + 1.5cm),example : I find 25.5cm so that means (25.5+1.5=27) then convert to mm it gives 270mmPS : I add this 1.5cm so I can fit my head easily in the helmet.6- click OK.7- Adjust template parts by selecting and drag to the centre of the pages so they don't cross the lines!8- click on File Menu -> Print or (Ctrl+P), select your printer the click OK.9- You will get 8 papers.PS2 : in two papers there's a note (Right Side) means those parts are on only one side of the helmet we have to make a copy of them (of course I will explain more). NOW LETS START THE WORK!Ironman's Helmet mark 42.pd0Tools to build the helmet:1- Cardboard box2- Template3- Glue Gun and Hot glue4- Glue Stick5- Scissors6- Cutter7- Lighter8- Pen or a pencil9- Ruler.10 - PVA glue.To make eyes light (optional):1- 6 LEDs (I'm using a 3V leds)2- Prototype Board3- Solder4- Soldering Iron5- Some wires6- AA battery holder with a switch (I took it from an old toy)7- White piece of cardboard.8- White piece of plastic (I cut it off from a bottle)Note : Let the template open on your PC(Pieces A&B)- Cut the piece on page 1 and 2, I let about 0.5 cm to 1 cm away from the lines.- We have 4 piece now, Take the A and B, this two we should glue them to get one piece.- Piece A : I cut off the excess from the straight line that will be the middle of the big piece (see the photo).- Piece B : I put the glue stick on the excess of the straight.- I place piece A on piece B make sure to connect edges well.- I put the glue stick on the back of the big piece and I glue it on cardboard.- Now cut of the whole piece by flowing the lines.- When you finish cutting pull off the white paper. (do this to all pieces)Pieces C&D- Cut the pieces C & D on the page 3.- We are going to do the same steps - Only measure 1 cm from the right point of piece D then glue piece C on it (see the photo)- Glue them together, put the glue stick on the back of the big piece, glue it on cardboard then cut it following the lines.Now the just glue the 3 other piece on cardboard and cut them.Pages 4-5-6 The piece on this pages just cut them normally!- Leave about 0.5 cm then cut!- Glue them with glue stick on cardboard and cut following the outside lines.(PS: the pieces on page 3 & 4 we gonna need them to create copies of them don't mix them with other parts so you can easily find them)I will give you an example with page 3.- Take the piece we made earlier, flip it the back of the cardboard facing you!- Take the pen and trace over it.- Then cut following the lines- The piece you get is the left side of the helmet.(DO THE SAME TO THE OTHER PIECES ON PAGE 4)We still didn't touch pages 7 & 8- Take page 7 then draw a line between the points of the parts (see photo).- Cut of the excess following the line.- Put the glue stick near the point of paper 8 so we can glue paper 7 on it- Make sure to connect the ends of the piece on both pages.- Now cut the pieces, glue them on cardboard then cut the whole piece.We are almost there!- I'm gonna start with the faceplate pieces.- Cut a square piece of cardboard.- Using Hot glue, glue the mid forehead piece in the middle of the square (see photo).- Next to it glue on of the side pieces, let between them about 1mm space, so we can add some details on the helmet.- Do the same to the other side.- Use the template to see the pieces you should glue together.- It's easy you need just a little bit of patience.1- Put PVA glue in a plastic cup.2- Add about 25% of water(so you have 75% PVA 25% water=3- Mix everything well.4- Using a brush put the mix all over the helmet.5- When you finish let it dry.6- When the helmet dries add another layer of PVA glue and just a little bit of water.7- Let it dry again.1- Take a piece of paper, glue it behind the eye, then trace the shape of the eye and cut it from the paper.2- Palce it on the top of the plastic sheet, the trace over the piece of paper the cut off the piece of plastic, following the lines we draw.3- Round the piece of plastic we cut, put it on the piece of the board then trace the round shape and remove the excess.4- Place the LEDs in the board, an-line the pins, cathode with cathode, anode with anode and solder them together in parallel, solder two wires to the ends of the last led.5- Put super glue/hot glue on the round edge of the board the glue the plastic piece, it should make something like a shield on the LEDs.6- Cut a piece of paper and glue it on the plastic to make a box to cover the LEDs.(Make the other eye using this method)7- connect the two eye, then test them.8- Now solder a file to the wire on the eyes and cover it with some tape, solder the end of the file to the switch and GND on the battery holder.9- test it and WELL DONE.PS : test the leds before soldering them to the board.Take the helmet out side to paint it!1- Paint the faceplate of helmet with a gold spraycan.2- Let it dry and paint it again.3- Cover the faceplate, the upper lip and the upper piece of the jaw with tape.4- Paint the whole helmet with a red spraycan.5- Let it dry then paint it again.6- When the helmet dries completely pull off the tape carefully.1- Using the cutter cut of the back piece carefully.2- Take a stripe (I took it from an old bag) cut off two pieces from it, and glue it with hot glue on the back of the helmet then attach the piece to it, so it can be openable.3- glue the eyes on there place let a little gap about 4mm between the under of the light eyes and the eyes on the helmet so we can see from it.The End.Thank you so much for your attention, I hope you liked this instructables.If you have any question let me know in the comments.