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Cardboard marble run videos

Watch our recycled marble work in action. Playing the video The best thing about making your own marble run is that there are no rules at all. The objective of the game is to take your marble on an adventure through a creative attack course using only gravity as fuel. What to build with the idea of making your own marble run is to be as creative as you like, using materials that you are probably already lying in your recycling drawer. Basically, you want things that will make tunnels, gutters and towers. We recommend: cardboard tubes (such as toilet paper rolls, or rolls of kitchen paper - or even sturdy tubes from the inside of cling film rolls) newspaper (roll into tubes) tubes lagging (foam insulation tubes) small cardboard boxes of, for example, cereals, tissues, toothpaste - or milk/juice boxes of plastic bottle bottles of egg boxes (catch the balls at the end). You'll also need one large cardboard box to build it all in Sellotape scissors or disguise tape two-way tape Sticky Tac Marbles Tips for creating a marble run easiest to build a marble run inside a large cardboard box without a lid. You can use tape or so to keep different parts in place. Cut the cardboard tubes in half lengthways and tape them together from end to end, forming a long gutter. You can use a rolled up newspaper to form covered tunnels as well. Cutting the top of a plastic drinks bottle and turning it up and down makes a great funnel. Other whole cardboard tubes or rolled up newspapers can serve as various high-rise towers to rest your gutters on. Draw around the end of your gutter to see where to cut the semicircle out of the tower, and slot your gutter in. The top edge of the cardboard box is a good place to fasten the first chute, giving your marble a helping hand of gravity. You can even make a small hole in the side of the box to feed your balls in like the side of a table football match. Cut the egg boxes into small cup shapes that you can place on the end of your parachutes for the balls to fall in. If you're ready for a call, you can create alternative routes by taping on a small cardboard tab that you can move into position to divert the balls when needed - a bit like the dots in the train track controlled by signals. When you are happy with your mileage, check it out with marble! Check the marbles don't get stuck anywhere, and smooth out any problem areas with extra tape if necessary. If you have the time, you can decorate your marble run, or turn on the start and finish the signs. You can race your friends by taking it in turns and how long it takes your marble to make it to the other end. Do you save cardboard tubes from paper towels, toilet paper, and everything else comes on a roll? Yes! I have quite a collection saved just to make the cool cardboard marble tube work on our wall. What a great rainy day or any time kind of activity! Easy to set up, easy to do, to do. Full of learning opportunities! Next time you find yourself holding an empty roll of cardboard tube heading towards the trash, save it instead! Our cardboard marble tube run a great recycling STEM project! Cardboard Tube Marble Run STEM Activities for Kids! MAKE MARBLE RUN We've been on a roll lately with wall-up! We recently made a pool of marble noodles run and super fun homemade wall water. I love finding creative and inexpensive ways to make fun activities that encourage playful learning. Looking for easy-to-print activities and low-cost problems? We have you covered ... Click below to get a quick and easy STEM problem. To customize for our cardboard marble tube run, I chose an empty wall. You can also use the fridge or door! I put a box of pipes and tape artists. I love using artists tape for activities because it doesn't stick to the wall. Cloth boxes were used to collect the balls at the end of the cardboard marble run. DESIGN PROCESS How do you start a cardboard marble tube to work? You have to think about the corners and plan ahead! Where do you want the marble escape to finish? BUILDING MARBLE RUN Now it's time to make your cardboard marble tube work! We cut out pieces of tape, so we had a lot of waiting as soon as we got going. The cardboard tube was easy to stick to the wall and we had fun designing our cardboard marble tube run. My son also decided to make a second DIY marble that fell in first. TESTING MARBLE RUN This brings us to my favorite point in this STEM project! Testing from a cardboard marble tube run! VALUE OF STEM PROJECTS It may look like a simple activity game that even the youngest child can help and enjoy, but it's much more. My son learns angles, gravity, slopes, engineering and problem solving. It re-creates, tests, solves problems, creates and tests. A small child can enjoy dropping pompons down a single tube. You might think they're just playing, but even the youngest child is learning about how the world works! Our cardboard tube marble run is the perfect reusable STEM project made new every time it's put together. Keep adding a tube to your delivery and you could make a floor-to-ceiling marble run! That would be pretty cool. It keeps everyone busy even adults on indoor day MAKE CARDBOARD TUBE DIY MARBLE RUN TODAY! Click on the image below or click on the link for more interesting STEM projects for children. Looking for easy-to-print activities and low-cost problems? We have you covered ... Click below to get a quick and easy STEM problem. First you take a thin cardboard box and pull it apart until you have a flat plate. what you can do as long as the trail is drawn. Then draw a line, cut it and fold it like in the photo. If you have to make a corner. You just cut aside. Watch our recycled marble work in action. Playing video Is the best thing about making it The marble's own perspective is that there are no rules at all. The objective of the game is to take your marble on an adventure through a creative attack course using only gravity as fuel. What to build with the idea of making your own marble run is to be as creative as you like, using materials that you are probably already lying in your recycling drawer. Basically, you want things that will make tunnels, gutters and towers. We recommend: cardboard tubes (such as toilet paper rolls, or rolls of kitchen paper - or even sturdy tubes from the inside of cling film rolls) newspaper (roll into tubes) tubes lagging (foam insulation tubes) small cardboard boxes of, for example, cereals, tissues, toothpaste - or milk/juice boxes of plastic bottle bottles of egg boxes (catch the balls at the end). 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Email If you're reading this but haven't seen our cardboard marble machine, you should first take a look: Our epic cardboard marble machine. This machine was enjoyable to build, and although my two sons are a little young to help build it, they loved watching it every step of the way. All right all right You are; you need patience. Creating a marble machine can be tedious at times. Just take it as a challenge, and don't rush. In this post, we will talk in depth about how we built our cardboard marble machine. What is our epic marble machine made of? We were inspired to build this machine because of our stash of cardboard pipes we had been collecting for a long time. Cardboard tubes are great for many reasons. They are free, and from an engineering point of view the cylinders are strong. Here's the full list of materials used for this project: Cardboard pipes: Collected from inside wrapping paper, cling wrap, bin liners, paper towel and toilet rolls. Some are super tight and some were soft. Flat cardboard: We moved recently and I used a couple of packing boxes. Most of the flat cardboard was used for solid base. Popsicle sticks: Also known for paddle pop sticks. We bought a bulk package of 1000 for about \$14. I used about half (From memory). Glue: Hot glue for solid joints, super glue for finishing strokes and craft glue to stick wide cardboard sheets together. We used the cheapest super glue I could find. A package of 6 small tubes for \$1.80AUD and we used about 18 pipes. Nails: We don't plan to use nails, but I was looking around the house for something to use as a hinge for the marble switch (switch). I noticed the nails were perfect, so I used them. Only 1 type of nail has been used for the entire project. Motor for lifting: To lift the ball, I used the 5v DC engine I had for the Arduino car project. It's cheap and I thought it was important to build a marble elevator to complete the project. Marble: I didn't have a marble house, so I went down to Kmart and got a bulk package for \$12. Bad move ... It turned out that it was all they were a little different sizes. I think for the next marble machine I will invest in some exactly the size of marble. Different sizes cause problems with consistency. Review the construction process We will go into a lot of detail for each section below, but I would like to give you an overview of the construction process we used. We didn't have a plan for this marble machine. We had a rough idea, and we built one section at a time. The first thing we wanted to build was the main frame, followed by a marble collection point (end of the run) and a marble elevator. This has given us a basic common framework. Once we had a place where the balls started and ran out, it was just a matter of building modules, placing them in a good place, and getting the balls in and out of each module. Here's a photo of our completed mainframe: DIY Cardboard Marble Engineering Tips Building Your Marble Machine from Recycled Cardboard is a lot of fun and useful. But it can be tedious and frustrating at times. Here are our tips for creating a cardboard tube Machines: 1) Don't be in a hurry Don't rush, slow down, and just chip away at it. This type of marble machine takes many days to build. Just focus on the section you build, make sure it's 100% before moving on to the next one. If you're in a hurry, you'll end up with marble falling all over the place when you're done. 2) Build a starting point and end point at first It's not a hard and quick rule, but only advice from us to you. Once we had the end point for the marble and the starting point, it made sense and made it easy to build other components. 3) Slowing down the marble I saw a lot of marble machines on the internet, and one thing I wanted to do on our car was slow down the marble. No need to have cardboard tubes at 45 degrees and run the marble to the end. Just tilt it enough to keep the marble moving. So each run lasts a lot longer and is more satisfying in my opinion. 4) Different glue for different jobs is probably more common sense, but I thought I would share. We used three types of glue. Craft glue, hot glue and super glue. Craft glue was used to glue wide sheets of cardboard. The hot glue was for really strong bulky joints, and super glue was kept for fine parts. If you just used hot glue, especially for thin jobs, it would end up being messy. 5) Create separate components After installing the mainframe, we began to build the main components. We looked at where we wanted them to go and what size they should be and then built them on our construction table. As soon as it was completed, we attached it to the marble machine. We don't build them directly on a marble machine. It was an easy way to do it. 6) Use surface level just to make sure you hold the surface level when you do so. If it's eleven when you move it around, you may find the balls going in the wrong direction, or not balancing properly. 7) Test, Test, Test You can't check enough. You need to check each component and see if/where it fails. If it fails, you can set it up. Stick on an extra popsicle stick, glue it to the best angle, do whatever you need to do. Also, if it's not just one in ten times, it's not good and needs to be fixed. You want it to work 99% of the time. More and you get frustrated when it all works at the same time. Build Photos Here are some photos from the epic marble machine build. There are quite a few and I will explain a little about each one. They are in assembly order, so you can see it as it goes forward. 5 Layer Cardboard Base This is a solid five-layer foundation we made. Glued together with craft glue. After drying, we cut it neatly and tape the edges with the wrapping tape to stop any tears. Marble item collection Because we were building an elevator, we needed all the balloons, end up in the same place. We built a typical marble car round plate out of a Manila folder, and when the balls failed, they rolled into the back canal. Structural Vertical We used five wrap paper pipes as a structural vertical for this DIY marble project. They were uniformly blurred, three at the back, and two on on on the We glued them with a lot of hot glue. We sprayed a lot of glue inside the tube, holding it horizontal and then tipped it quickly to place them. The hot glue then ran down the inside to make a good connection. We then placed a neat ball of hot glue around the outside. We wanted them to be very strong. Marble Lift Construction We made a fairly typical marble elevator out of cardboard. The spiral is another wrapping paper tube wrapped with 1 cm strips of cardboard. The concept is that the spiral rotates, but the balls can't rotate with it, so they are forced up. Our cylinder has a cog on top because the motor turned to quickly directly attached. Marble Lift Motor and Connection We had a 5v DC engine from the old Arduino car project and decided to use it for the elevator. It was a bit noisy but that's all we had. We added it to the top and used the cog to connect it to the spiral mine. The cob has been used to slow down the speed and increase torque. We ran the engine wires down the rear vertically from the bottom and back to connect to the ac adapter. Creating the tumbler's module the first main module we built were glasses. The marble will drop at the top at first and then tip into each other all the way down. Easy to do, just need to provide a lower weight a little more than the top, but when the marble is in it, the top weighs more and makes it tip. We used inserts in the base to increase weight without making them too long. Building a nail bed next was a nail bed. We wanted a collection of balloons to fall through the nail bed for visual and sound excitement. So we built this bed out of nails. Just a piece of flat cardboard with nails evenly spread apart. We superglued them at the front, and hot glued them on the back. They had to be strong because they were going to take a knock. Set at an angle, all we needed was a dump truck at the top and a collection tube at the bottom. Both were introduced after the nail bed was in place. Building the 4 Ball Tipper Mechanism At the top of the nail bed, we wanted a tipper truck. He had to collect three marbles, and on the 4th he would tip over. We used vertically as a point of support and made the structure out of Eskimo sticks. Just make sure the back weight is more than three balls and less than four. Saying that you can decide the number of balls you want to tip. All we had to do was build a channel later that put the balls on the mechanism. The open face and design on the subway got a bit of fantasy here. This tube is frontal, so we decided to make it a bit fancy by cutting the design into it. He must carry balls from one side of the machine into glasses. On the right side we decided to put in place a balanced hand. Marble will enter it on the left; it will fall, and marble back from the left side to the glasses. Top Switch/Toggle As the balls come out of the marble elevator, we wanted to split them in two different directions. We did it with a small little It is in the shape of an inverted T. When the marble hits the bottom of one side, it tilts the top over, and forces the next marble to take the opposite side. Easy to do and very effective. Built a corner module with a splitter at the top of the right side. I wanted to create a visually pleasing 90-degree marble run where the balls ran against the cardboard. I also wanted to build another splitter in this one so that I can split the marble again. It's going to be the only splitter on this side of the machine. So with this being the second splitter in the line, the output will be 25% of the marble on each side. Connecting the modules to the right side by now, we had the main modules in place and we just have to plug them in. I was just trying to come up with unique ways to get the balls into the right section. One of the runs you need to get from a 90-degree board for a weighted hand for glasses, and the other is from a 90-degree board to a bed nails dump truck. We made a zigzag board for one side, and a windmill toilet paper for the other. They can be anything; It didn't matter; it just had to get the balls to the next module, looking interesting and unique. One photo I wanted to include is that we're doing a windmill. We tried to be careful and accurate. We used the measurements of the stripped-down board to be precise. The right side is complete, that has concluded 50% of our epic marble machine. I could drop marble from above on the right side of the splitter and they would take one of the two ball runs to the bottom. They worked very well and we were pleased. Popsicle Stick Track - Splitter Now we start to the left side. We made a simple 3-tier track out of popsicle sticks and at the end, we put in the left side of the splitter. This is our last splitter and second for this side. This means a total of 4 separate trails with 25% marble each. Once this section was in place, we only had two runs to complete. Creating Speed Ramp We wanted a high-speed section for the marble machine, so we went at the speed of the ramp. Two track Eskimo sticks are connected at the bottom of the curved Eskimo stick. We curved the Eskimo stick, soaking it in the water overnight and then bend it around the bottle, holding it in place with the rubber band until it dries. Where the tracks meet, we wanted to make it smooth, so we cut out small triangles, glued them and polished them flat. Looking back, I had to cut off the ends of the round. When attaching tracks to a curve, be careful to ensure a smooth transition from track to curve. When this ramp speed is in action, the marble goes from side to side until it loses momentum and falls off the track at the bottom. The construction section of the slalom slalom section is the only module that we have built on the machine. The reason is that each half of the pipe is connected directly to the vertically. We made the final curves on the construction table and then we installed one halfpipe and one end of the piece at a time, providing security lined up perfectly. Snake Tube We wanted something visually interesting to get the balls from the speed of the slalom to the bottom tube so we made a snake tube. We cut the tube into small rings and glued them together. Marble treats them like steps, and it looks amazing. Finishing Touches machine lacks design, so we decided to put our logo on top. It took a very long time. I cut every letter out of cardboard matching our logo and then painted it just as our logo appears. I think he finished it pretty nicely. Completed Epic Cardboard Marble Machine It was a finished product before any final testing. You'll probably see a few small changes between this photo and the finished video. Typically, additional Eskimo sticks are added here and there. That's because there were a few loose balls in the final test and they need to be fixed. Alex hi I'm doing a school project and I've been trying to do a marble funnel thing, but it just doesn't stay on the funnel and walk around and around like yours do. Instead, after one turn, he fell through the whole. The purpose of our marble run is to make it the longest time, so it's not helpful. Could you explain in detail how you did it. If you can please do as soon as possible as I need to do so by the evening. Answer STEM Mayhem Hi Alex. There are a few things that you might try to make the funnel last longer. First, angle the walls, make sure they are not steep, make them as flat as possible. Secondly, the corner of the ball hits the funnel. Make sure it goes in the direction you want the marble to travel and at the top of the funnel. Another thing is, the ball has to go at the right speed when it enters the funnel. Too slow and it will just roll to the bottom. Good luck! Good luck!

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