



Theme: In to orbit- blast off

Name: fish

Supplies:

Source:

Golf balls.....

Wooden pallet (1).....

String.....

3D printed items

Dry ice

Scrap wood pieces

Ping pong balls

Cardboard

Paint

Dominoes

Magna tiles

Nov 14: We started building our base, which is going to be made up of two pallets. Assembling them is difficult, though, because the one is made out of boards that are too wide.

F.s. we did get them together, but then we had to take one off to share with another team.

Nov 28: Today we found out we cannot use 2 pallets, so instead we made an extension off of the side of the one we have. It is a lot sturdier than having the other pallet, so I suppose that that was a blessing in disguise. It also looks better, and will be easier to paint.

Nov 29: Today we worked on sanding the base, because by now it is mostly assembled. We also put on the first ramp.

Dec 1: We finished adding the first step, which includes a golf ball and a ping pong ball that it transfers its energy to.

Dec 2: today we revised the first step, which included the replacement of the cardboard ramp. This time we made the ramp out of a more sturdy material, particleboard.

Dec 5: I punched a hole in the ramp we made so we could have the ball drop through, and when we tested it, it worked. Tomorrow we plan to attach it, as everyone has other tasks the need to do.

Dec 6: We made a vertical lever today. We figured it would be cool if the golf ball hit it and then the lever and launched another ball.

Dec 7: Today we decided to not attach the second ramp. Instead, we figured It can just sit on top of the pieces, so it's easier to remove and transport.

Dec 12: We started and finished the initiation step today, it was simple and easy. We added another ramp and a pulley as well, so our machine is coming along nicely.

Dec 13: Today we did not add any more steps, but we brainstormed until two of our teammates left. After that we retired for the day.

Dec 16: On the 14th, we did not work on the machine very long, and the 15th was a snow day. Today we made sure the pulleys were functional, and added a ledge for the dominoes to sit on.

Dec 19: Today we started to experiment with dominoes. We think magna tiles will work better, they are sort of like magformers. We also added a chute where a marble will fall.

Dec 20: Yesterday, some of our teammates went to the hardware store, and they got a pulley because the one we made did not work. The cost was 9 dollars.

Jan 17: today we are starting to work on EMDC again, after taking a long time to work on NHD. We took super long to finish NHD, and our team hopes to get lots of stuff done.

Jan 18: yesterday we perfected the steps we had, like adding a funnel on a tunnel that corrals a marble. We also changed out the back on the first ramp. Today, we aim to get the rest of the steps fleshed out.

Jan 23: We want to finish up the last of the steps today, because we only have 8 at the moment. We might add a rocket ship to the end, but we may also have to abandon our original ending.

Jan 24: The team decided to stick with the original ending after all, so someone used old learning magazines for paper mache. We put the paper over a bowl for a Moon a rocket can land on.

Jan 26: We painted the moon made of paper mache today, but besides that we got our 9th step.

Feb 28: today we started working on our machine after a long break. We registered for the regionals and are going to decorate.

Mar 15: Today we worked on starting the painting process. We used black to cover the whole pallet and make it uniform.

Mar 16: Today we finished up the black paint and started the other colors. We used blue and red to start making some planets along with white to add stars to the background.

Mar

Mar 27: With most of the painting complete, we just added some touch ups. We are preparing to set up a part where one rocket causes the other to go down. We will probably test and add it tomorrow.