

## Baby Yoda's

Myrtle Grove Christian School, Wilmington, NC USA



MIDDLE SCHOOL STOCK CLASS

- 1 Years participating in SeaPerch
- 1 Times at the International SeaPerch Challenge

### **Our SeaPerch is unique because:** (100 words MAX)

Our ROV is unique because we use the V-Wing design and not many people in our class made this design. We had to make some internal changes to fix our buoyancy like putting foam inside the pipes in order to elevate the ROV's frontside. We also added two arms, one made of PVC and one made with a bolt. The bolt was used so that we could pick up the rock samples with no hoop and the PVC pipe arm allowed us to complete many of the other mission tasks.

### **SeaPerch Design Overview:** (100 words MAX)

Our ROV used ½ inch PVC pipe with a verity of pipe connectors creating a V-Wing shape. We selected this design because it looked like it was going to be the fastest in the water and move easily around the mission course. In order to complete all the tasks in the mission course we had to make a few modifications to our ROV. We had to test each of these to make sure they were going to be the best for completing the tasks.

### **Our biggest takeaway this season is:** (100 words MAX)

Our biggest takeaway from this season is that the key to success is experimenting with different parts, tools and ideas to come up with the best combination. We learned that the smallest change to your ROV can have a big effect, like the buoyancy. Our team did many tests so we could get it right. We learned that communication n is vital to avoid conflict. It was important that we were on the same page to get the best results. Our experiments also showed us who was the best for each job. We each tried being the pilot and being the tether and the spotter. We quickly figured out who was best at each job.