

## BELLA THE MARINE BIOLOGIST

### DOLPHIN TALES

Hey engineers! My name is Bella and I'm a marine biologist! When I was in fifth grade, my family and I would go to the beach play in the waves during the summertime. I was fascinated by the different animals that live in the ocean and knew I wanted to learn more! I studied biology at Hancock for two years and then transferred to Cal Poly to study marine biology.

Biology is the study of living things. Marine biology is the study of the ocean and the plants and animals that live in it. For my job as a marine biologist, I focus mainly on injured ocean animals. I analyze the problems affecting them and try to find solutions that protect both the ocean and creatures!

Recently, my team and I discovered a baby dolphin named Diana who had washed up on the shore. Diana became sick after a cargo ship dumped chemical waste into the waters where she lives. My team and I have been working very hard to get Diana back to good health and it looks like she's finally ready to get back to her home and family! I need your team's help to dive into the ocean, check if the water is good to make sure Diana won't get sick again, and return her home with her family! Are you ready to get deep diving? Let's go!

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Now that we've learned a little bit about what causes the ocean's movement, let's dive in to see it for ourselves! I need your team to code our path through the ocean. First, we need to make sure that it is safe to go under. I will **wait until your voices say "DIVE IN!"**, then I need to **dive a distance of 30 at speed 45**. Then, I need to **repeat two Figure Eight** movements so Diana and I can adjust to the waters.

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Navigating the sea can get pretty tricky, especially with a baby dolphin at your side! So that means it's very important that the baby dolphin knows where we are! Let's **set all the light colors to blue** and **change the face pattern** to something the dolphin can recognize. Now let's make a **sound of look here**.

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Okay team, before we return Diana to her family, we need to check that the water quality is safe for them! To do this, I must **turn at a 90 degree angle, swim a distance of 30 at speed 35**, and **turn all of my lights to green** to show that the water is clear. **Wait 1 second**. Then, I must **turn 180 degrees, swim a distance of 60 at a speed 35**, again **flash my green lights** and **wait 1 second**. Finally, I must **turn another 180 degrees, swim a distance of 25 at speed 35**, and **complete a Forward Spin** to finish the water quality check!

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We're finally ready to reunite Diana with her pod! All we have left to do is **turn -90 degrees, swim down a distance of 50 at speed 100, complete one Forward Spin** to release Diana, and celebrate with a **mission success sound**!

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Awesome work team! Thanks to all your amazing help, Diana is back with her family! You all make such great sea adventurers and animal lovers, I hope you consider becoming marine biologists! Remember that your work can help marine life, the ocean, and even the entire world! Keep up the hard work and maybe I'll be joining you on your own sea adventure one day!