

# VEX Theme it Up! Online Challenge



Students that participated: Mia Haddock and Judy Alicea

Team: 2290A

Team Location: Colegio Adianez, Guaynabo, Puerto Rico



**COLĒGIO ADIANEZ**

**2290A**

*STAR UP*



# Brainstorming Process

When we were brainstorming for this Online Challenge at first, we did not know what to do. Do we want to do a story or a theme?, we asked ourselves. Until one day Judy was eating pancakes and thought, "Oh my God! Pancakes look like Spin Up discs!" Then Judy brought the idea to Mia and she loved it too. so we started expanding Judy's idea into a fun cooking game, a cook-off!

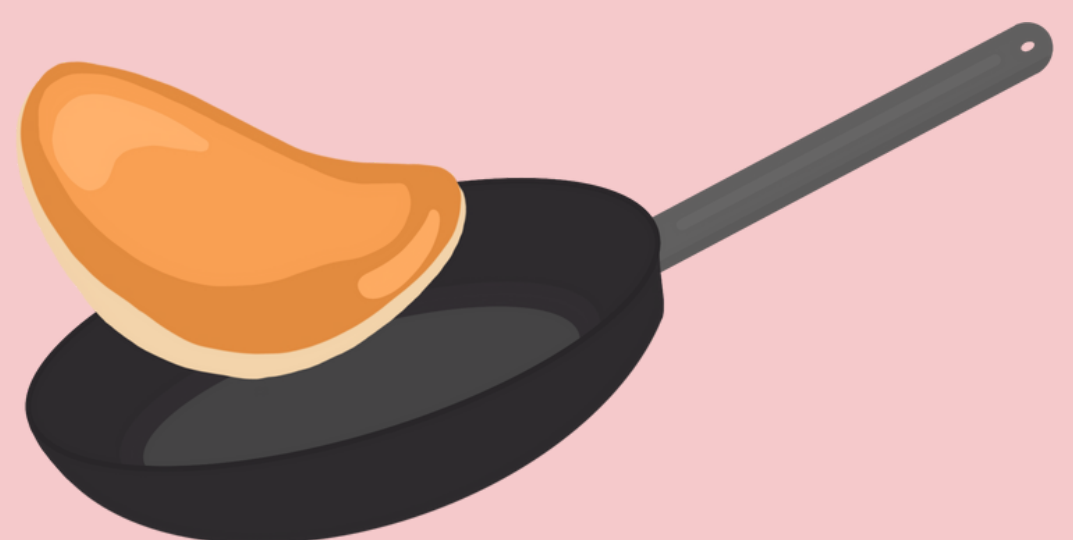
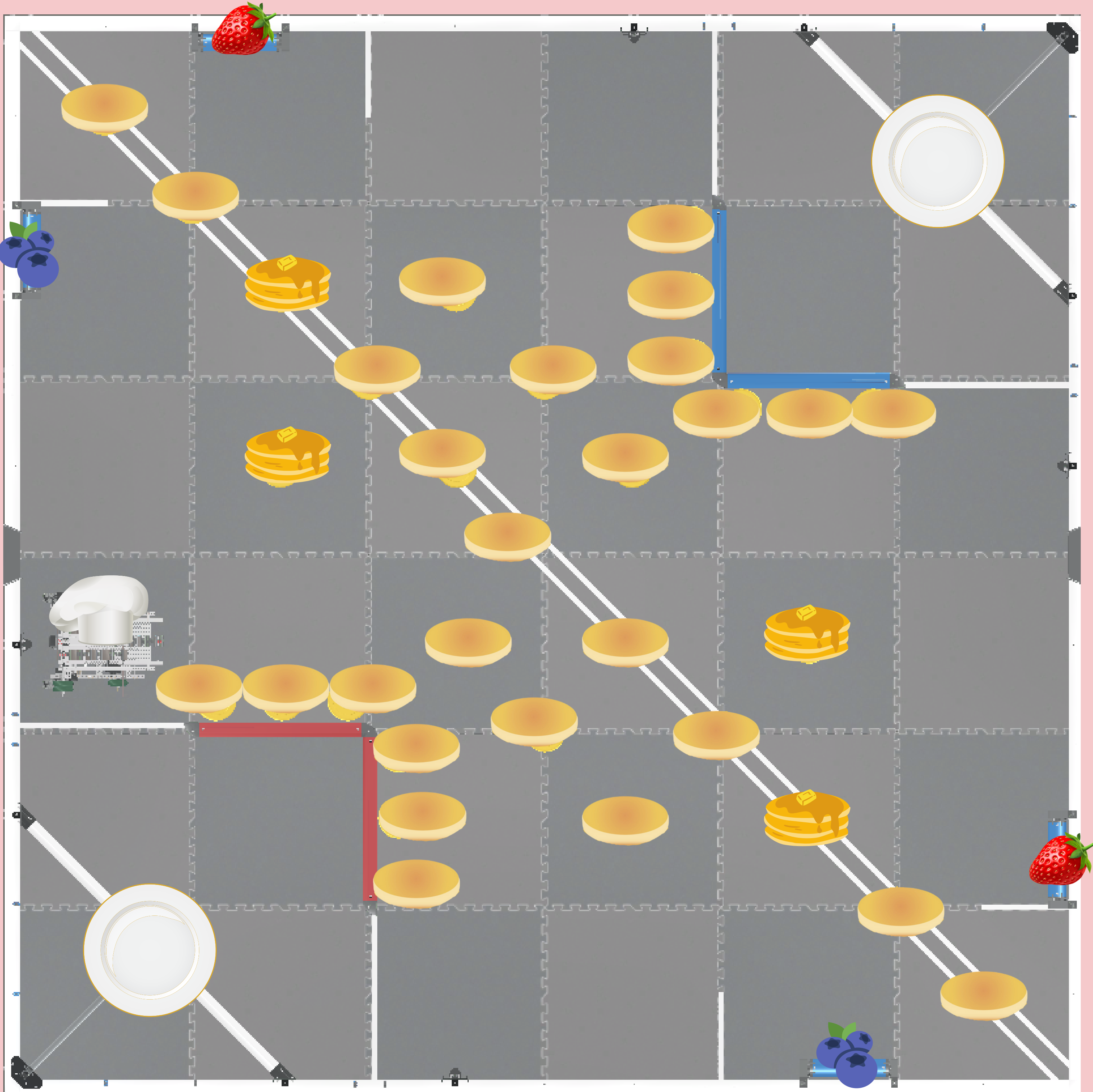
Since it is a cook-off, we decided to make it a kitchen themed game. For this cook-off we will have kitchens fighting for the win. We decided the teams should represent the colors of the original field, red and blue. The red kitchen will represent strawberries and the blue kitchen, blueberries. These two kitchens go into a head to head cook-off and not only they have to plate the panacakes, but they also get to pick a berry-flavored syrup. For the syrup selection, we decided that we will use the rollers. To receive the points, you have to own the roller. Make sure your roller is on the flaver you represent. To finish the cook-off with a twist, robots will have the opportunity to cover as many tiles from the field as you can in the last ten seconds. There is no horizontal expansion limit, so kitchens best get creative with the expansion. Think of the field as a big plate and how you want to cover a big plate of food!

Welcome!

To the 2022-2023 season of Stir Up. Stir Up is a confrontational cook-off that is played by two kitchens, blueberry and strawberry. The main objective in stir up are delicious and fluffy pancakes. There is a total of 60 pancakes in a Stir Up Cook off. The pancakes should be plated inside the high plates and they have a 5 dollar worth. However, the pancakes that are not plated correctly and fall to the oponent's low plate, your team will have to pay 1 dollar per pancake because you can not waste food. Not only you get to plate the pancakes, but you also get to pick a special syrup flavor! For that, we have the rollers that dispense the berry-flavored syrup of your kitchen's determined flavor. Remember that you have to make sure you own your determined syrup because you can not have the blueberries and the strawberries mixed. Every berry flavored-syrup your team owns, will result in ten dollars, the same is for the opposing teams berry flavored-syrup.

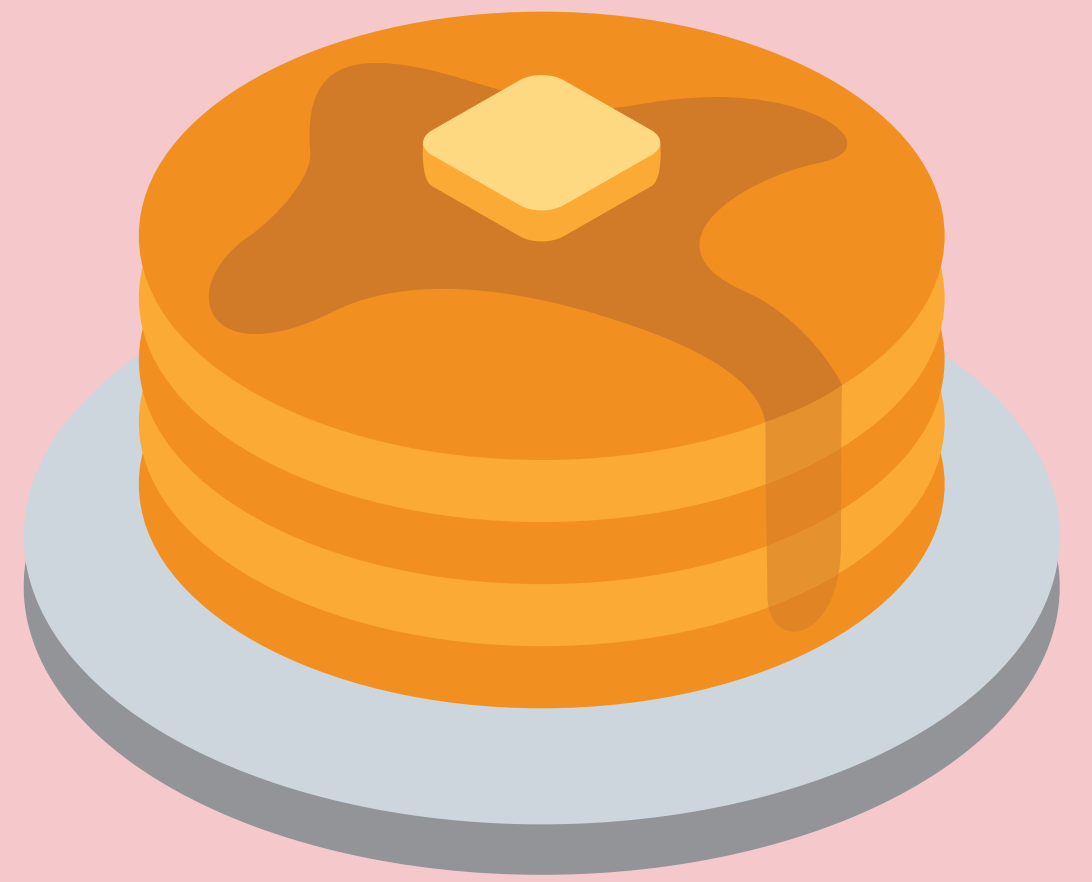
Each cook-off begins with a 15 second autonomous period where your robot will have to operate without any input from the Driver. Not only will you be competing for the Autonomous Bonus, you will also be competing for the Autonomous Win Point. The Autonomous Win Point consists of plating 2 pancakes inside the high plate of your determined flavor and owning both syrup flavors of the side of your field. Then we have the fun part. The one minute forty five second Driver Controller Period begins. During this period robots can make the pancakes inside the field and plate them inside the high plate or they can also pick-up from the curbside/pick-up area. At the end of the Stir Up cook-off, kitchens will receive a 3 point bonus for each tile their robot is contacting.

# STIR UP: THE FIELD

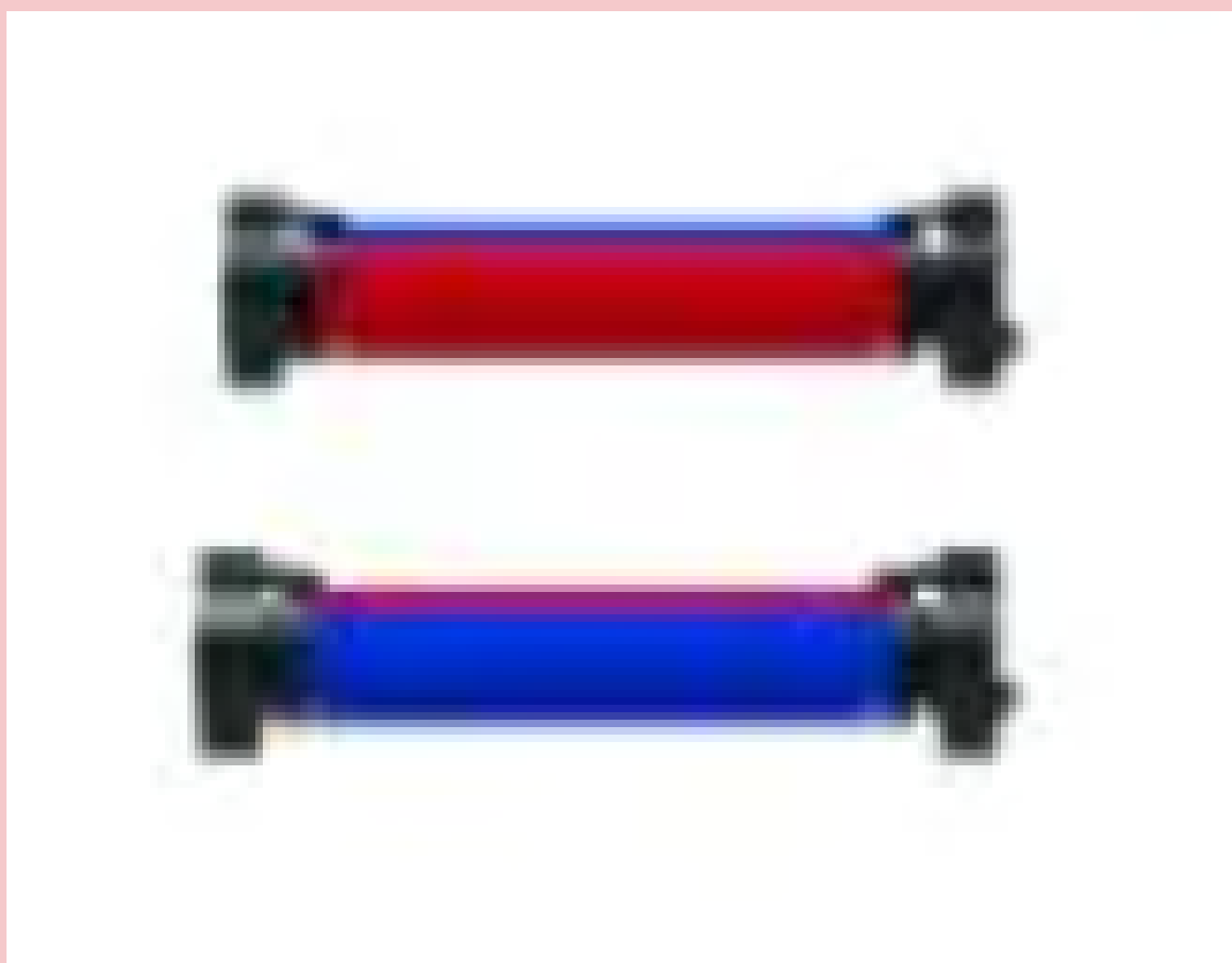
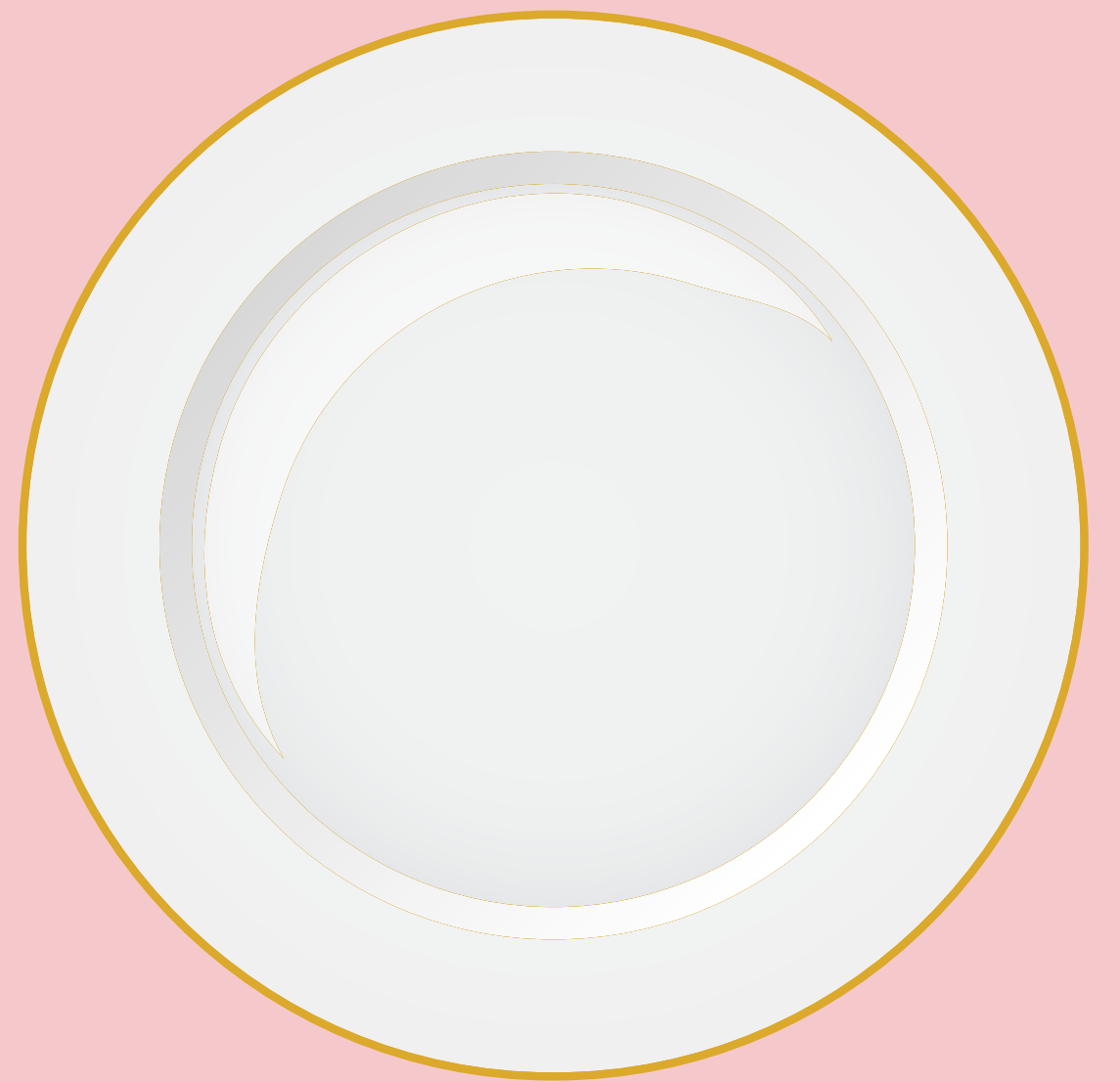




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