1. **Names of the group participants (including your own):**

Group member: Jiahao Wang, Ruitong Sun, Zijun Liu, Xinyang Yuan

1. **Project you have chosen to focus on:**

In this project, we want to design a series of swimming equipment for swimmers.

1. **Notes/sketches that your group created during the group brainstorming session:**
2. **Your individual idea and sketch(es) from the brainstorming session;**

Personally, I would like to design a swimming goggles which can measuring your swimming strokes, detecting surrounding objects and measuring distances. It’s is very useful for the beginner swimmer.

**5. Documentation of your bootlegging activity, including the four attributes you chose and their values, each of the random selections your group came up with, and descriptions of each of the ideas generated during this process**

First of all, Zijun comes up an idea about design a swimming goggles for the beginner swimmer. Since, it will help people learn to swim quickly and enjoy swimming.

Second, others offered to increase heart rate monitoring in the goggles and connect to your phone. If you don't feel well, it can help you find someone else's help and call an emergency center.

Third, there's a waterproof headset in the swim cap that you can listen to some music. At the same time, you can listen to your coach's advice during training.

Forth, Ruitong sun want to increase the buoyancy of swimming trunks to help beginners, since he is too heavy for beginners to practice for long.

From my perspective, since we are designed for beginners swimming goggles, we need to consider all aspects for beginners. What’s more, I would like to add some functions to the goggles, such as waterproof, measuring distances. Detecting objects and observing swimming strokes.z

**Reflection: 1-3 sentences about your own experiences in this activity. Which of the methods was most helpful? Did anything surprise you about this process or what your team came up with?**

From this experience, I learned how to build a big project and team members together. The most important thing is that I know how to turn a small proposal into a practical project. At the same time, communication is key because everyone's advice is important. Brainstorming collectively is the best way for a team. It did surpises me, since we only wanted to design a simple swimming goggles to help beginners learn to swim quickly, but in the end we came up with a lot of good ideas and added a lot of functions to the goggles.