

A large, jagged iceberg floats in the deep blue ocean. The sky above is a clear, vibrant blue with wispy white clouds. The iceberg's surface is uneven, with sharp edges and deep crevices, reflecting the sunlight. The water around the base of the iceberg is a darker shade of blue.

# BACKGROUND

Because of the continuous environmental pollution, the earth has been seriously damaged, and the ecological system and the sustainable development of human beings have also been seriously threatened. Everyone should establish an awareness of environmental protection, and everyone has the responsibility to contribute to environmental protection.

Because people burn fossil fuels, view forests and burn them to produce a large amount of carbon dioxide, that is, greenhouse gas, which causes the earth's temperature to rise, which causes the melting of glaciers and the rise of sea levels, which endangers the balance of ecosystems and human survival.

# INSPIRATION

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I have seen a picture before, showing a polar bear stepping on crushed ice and nowhere to go. This picture shocked me deeply, because from this picture, I can almost see the future of mankind itself: nowhere to go. The rapid melting of glaciers around the world brings about the first problem to the earth's ecology is the destruction of polar animal habitats. When the polar bear cannot walk freely on the glacier, that is when the species is getting closer and closer to extinction. When penguins cannot thrive in Antarctica, that is when we will never see them again. When the number of these animals decreases sharply, it also means that the living environment of human beings is also deteriorating sharply. The source of all this is environmental pollution, so I want to build a device that simulates the melting of glaciers, so that people can intuitively experience this phenomenon, thereby enhancing people's environmental awareness.



*Polar bear has nowhere to step on  
crushed ice*

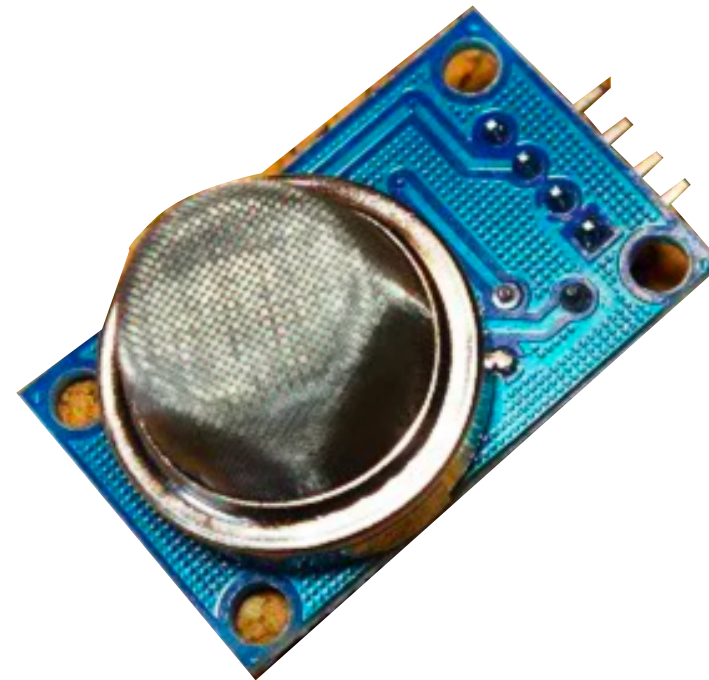


# PROJECT INTRODUCTION

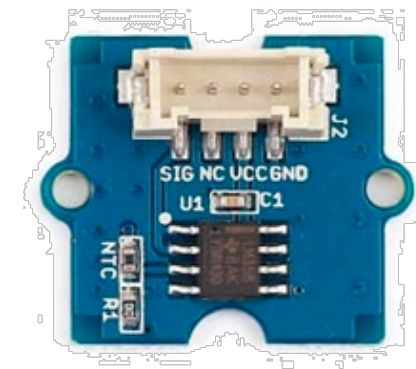
Most people have no idea about the melting of glaciers. In most people's minds, it is just a word, but they don't know how much harm it brings, because people are very far away from glaciers, and the sea level rises by 1-2 mm every year. It seems nothing to most people, so I want to imitate this phenomenon in the form of a device, so that people can intuitively feel the changes of glacier melting and sea level rise, so as to enhance people's environmental awareness.

After the smoke sensor receives the smoke signal, it causes the temperature of a certain sensor to rise, and at the same time, the LED light gradually lights up, which means the temperature rises. When the temperature sensor receives the temperature rise, the glacier on the LED screen gradually melts and the sea level gradually rises. When the smoke gradually dissipated, the glaciers stopped melting and the sea level dropped.

## COMPONENTS AND SUPPLIES



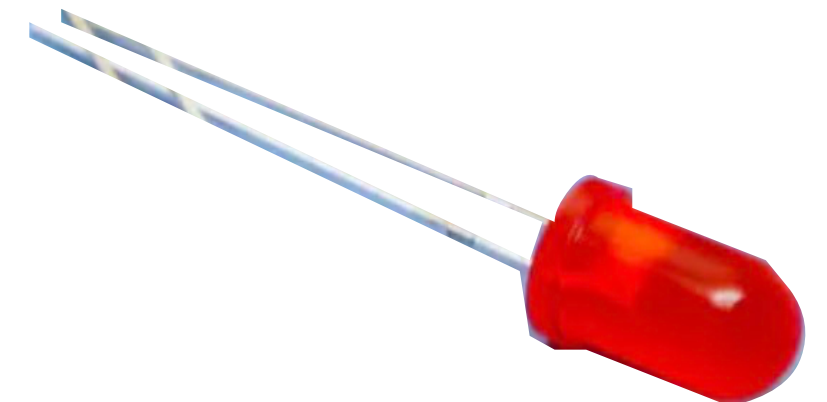
Smoke sensor



Temperature sensor



Switch



LED light

