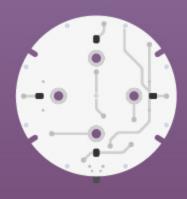
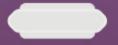
Frozen II Coding Kit motion sensor How to make a







PCB + Sensors



Power button



Light plate



**Batteries** 





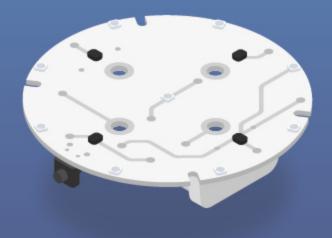


**Bottom** case





### Let's begin. Pick up this piece



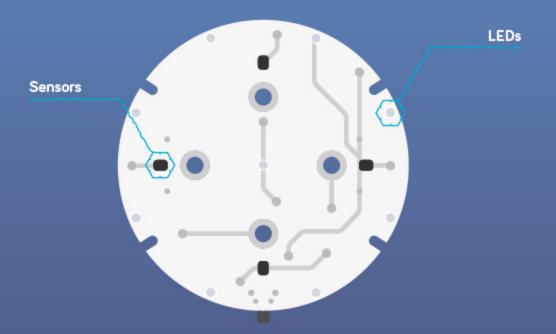
It's called a Printed Circuit Board or PCB

### Turn over the PCB and slot in both batteries



Make sure they are the right way round

### Take a closer look at the PCB



It's made of sensors, LEDs, microprocessors, resistors and tracers

Each sensor has two lenses. The top lens sends out an infrared beam



Infrared is a type of light invisible to humans

When your hand breaks the beam, it gets reflected back to the bottom lens



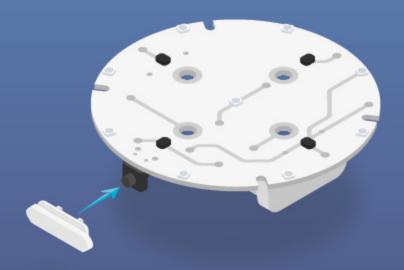
so the sensor can see where your hand is

All four sensors work together to tell if your hand is going...



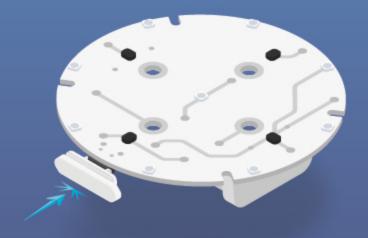
up, down, forwards, backwards, left, right, or tilting

### Time to add some control



Push the power button onto the PCB

### Make sure it is snug

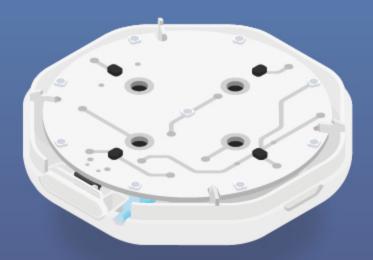


### Now place the PCB into the bottom case



Line up the button with the groove in the base

### Gently push the PCB into the base

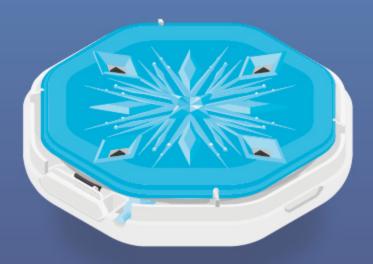


### Take the light plate



and place on top of the PCB

### Make sure it's pushed in all the way



Take the top case



Push it onto the bottom case

### Until it clicks



To turn it on...



press the power button

Now, reach out... put your hand over the sensors. What do you see?

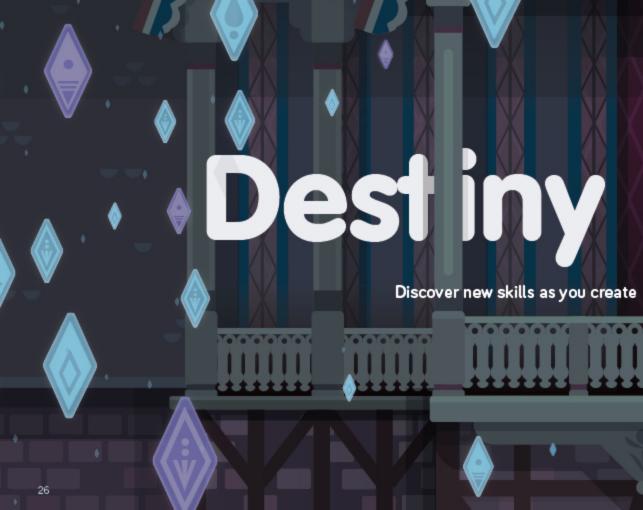
The PCB tells the lights to brighten as your hand gets closer to the sensors



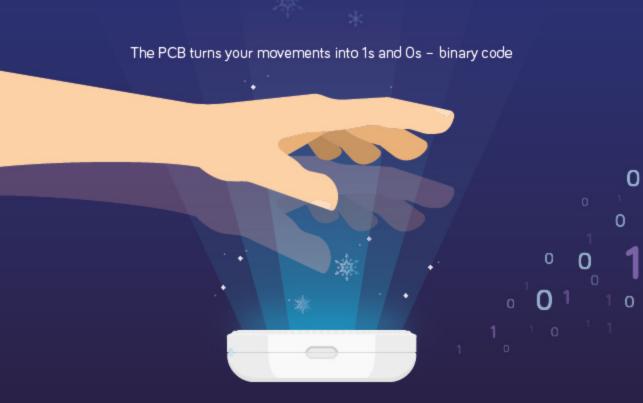
## Now, simply download the app onto your device to start playing with The Disney Frozen™ Coding Kit



Download it at kano.me/app/frozen







A simple language your computer can understand

### It beams those 1s and 0s to your computer



letting you make things move on a screen

The power button should always point towards you



So the kit knows which way it is facing

To save battery power, put the kit into sleep mode



Press and hold the button for three seconds





### The Bluetooth light on the side will tell you if your kit is connected

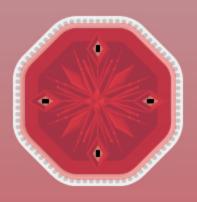




Flashing when searching

Solid when connected

### The lights on top also tell you different things

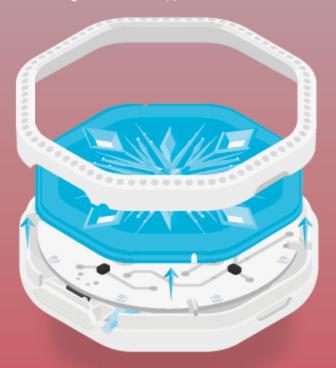


Low battery



Change batteries

To change the batteries, press and hold the side



Pull the top case off and take off the light plate

### Take out the PCB



and change the batteries





### Something not working? Get help fast at help.kano.me

### Use these help codes

The Disney Frozen™ Coding Kit not powering up	FR2
The Disney Frozen™ Coding Kit won't connect to device	FR3
Help installing or using the app	FR4
Device isn't supported	FR5

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# FROZEN II





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