



Thinker1 Potentiometer

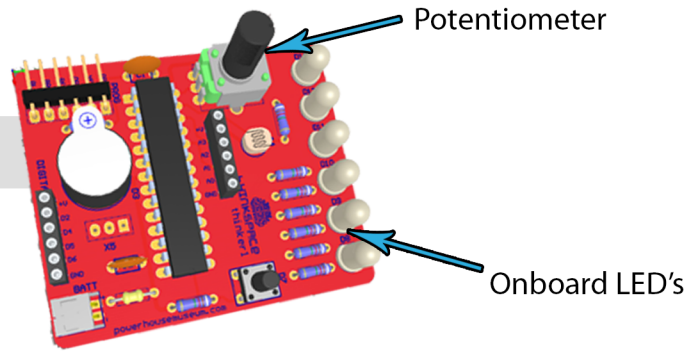
Activity Three



What are we doing?

We will use the potentiometer to switch between two LEDs.

What parts of the board will you be using?



What files will we be using?



Instructions

Step 1

Open the file:  Potentiometer3.ino

We are going to set up our potentiometer to give us only two values. When we turn it to the left it will give us a value of 1 and when we turn it to the right it will give us a value of 2.

We will then use these values to turn on two separate LEDs so that we can switch between them by turning the knob.

Step 2

Look for the comment `//map the values for PWM` and insert this code underneath;

```
value = map(value, 0, 1023, 0, 2);
```

This will convert our potentiometer values and give us our two values.

Step 3

Look for the comment `//use if statement to turn LEDs on and off` and insert this code underneath;

```

if (value == 1)
{
  digitalWrite(led1Pin, HIGH);
  digitalWrite(led2Pin, LOW);
}
else
{
  digitalWrite(led1Pin, HIGH);
  digitalWrite(led2Pin, LOW);
}
  
```

Program Logic

