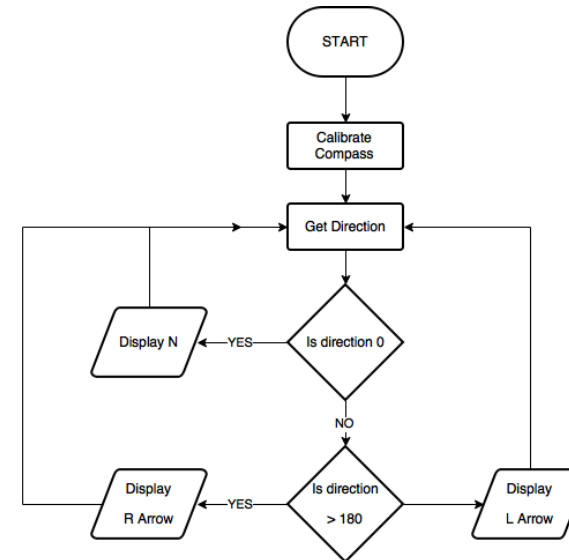


Micro:bit Project Sheet 2

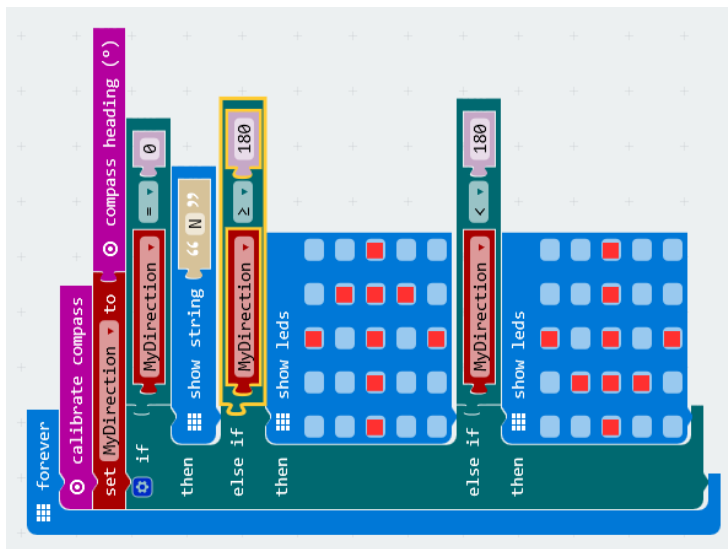
Success Criteria

- Reads the current direction using the magnetometer
- Display an arrow on screen pointing towards north
- Show an N when pointing north

Design



Block Code



µPython

```
# Add your Python code here. E.g.
from microbit import *

compass.calibrate()

while True:
    heading = compass.heading()
    if heading == 0:
        display.show("N")
    elif heading >= 180:
        display.show(Image.ARROW_E)
    else:
        display.show(Image.ARROW_W)
```

Testing

- Does calibration start
- Stand +90 degrees away from North—does arrow point left
- Stand -90 degrees away from North—does arrow point right
- Does arrow change to N when facing north

Notes

- Do not test on metal surface
- Do not test while resting Micro:bit on a magnetic compass