Group

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HUMBER

Lunar Lander Lift Off
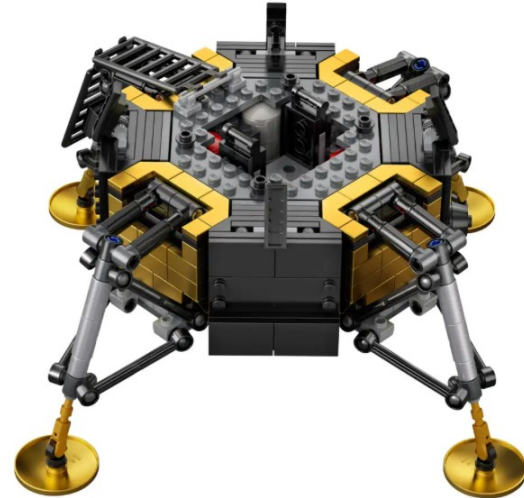
NASA Apollo 11 Lunar Lander
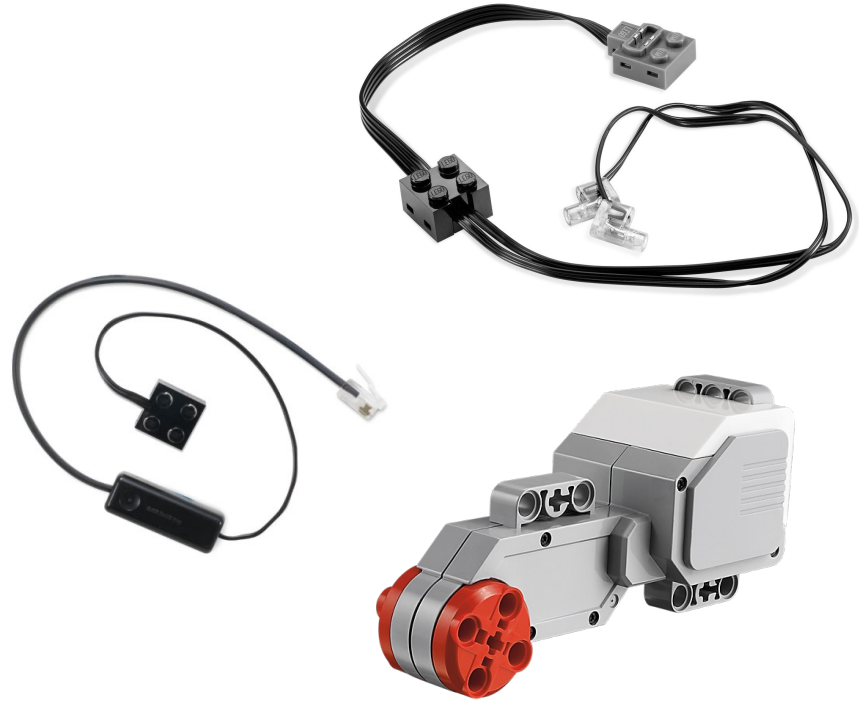
Apollo Lift Off

Set #10266

Module Description

Weasley's hat from the **NASA Apollo 11 Lunar Lander** set already has a lever to lift the cabin manually. This module will lift Lunar Lander automatically every 10 minutes and lighten it up.
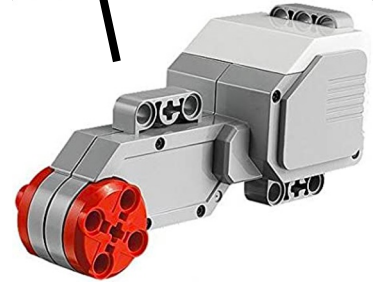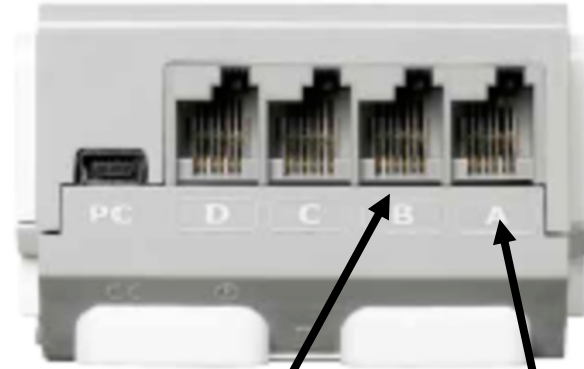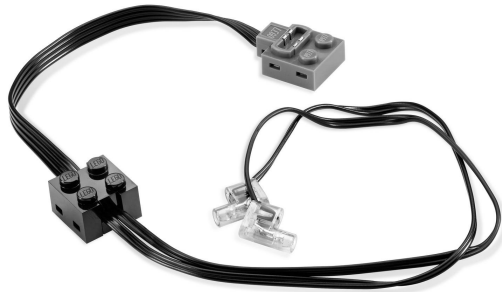
Sensors and Motors

For this to work, we'll need to use EV3 motor, LED lights, and a Converter.

Ports

Weasley's hat will require two output ports on an EV3 hub to connect a motor and a converter with lights.

Variables/Settings

**Status: Can be set to "on" or "off". When on
Lunar Lander will lift every ten minutes and the
lights will be on while lifted.**

Interval can be changed.

```
1  {
2      "start" : 0,
3      "interval" : 10
4  }
```

IOT Loop

While true

If status == on

if counter == 0

switch on lights

start motor slow clockwise

//It lifts up

else if counter == 10

stop motor

// comes down

switch off lights