

# ELC 2137 Lab 2: Transistors

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February 3, 2021

## Summary

This lab's focus was making different physical logic gates using transistors. The gates built were an OR, AND, NOT, and NOR gate.

## Q&A

1. What is the Logic/truth table for the final gate?

A		B		OUTPUT
0		0		0
0		1		0
1		0		0
1		1		1

2. What logic operation does it implement?

AND

# Results

ELC 2137

Lab 2. Transistor Logic Gates

## Circuit Demonstration Page

Student names: Forrest Knee \_\_\_\_\_

### Instructor Initials

Pushbutton "Or Gate"

Kes

Transistor Not gate

Kes

Transistor Nor gate

Kes

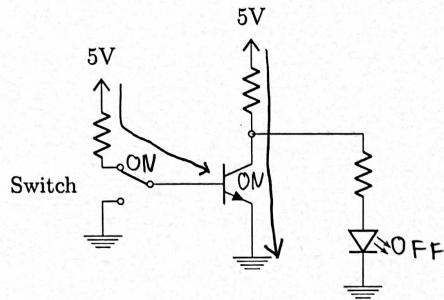
Transistor unknown gate

Kes

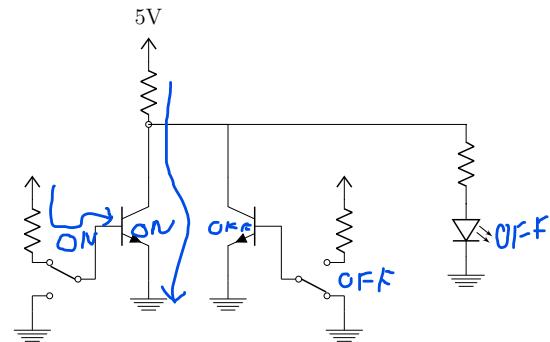
### Diagrams

On each of the circuits below, draw the current paths and note whether each switch, transistor, and LED is ON or OFF.

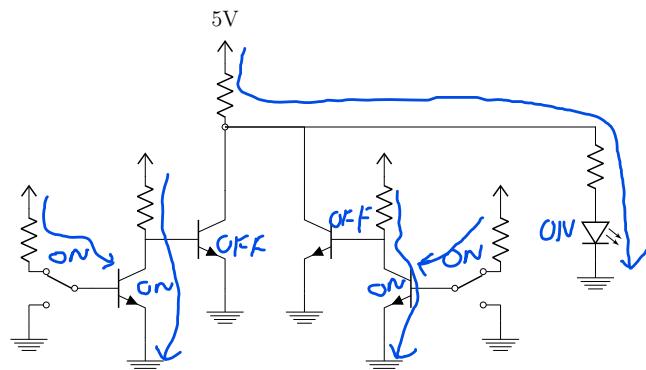
Inverter:



NOR:



Final gate:

**Code**

none