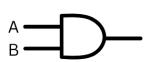
# Logic Gates I Worksheet



Label the gate and then draft a truth table for its outcomes.

Group Example

Create an XOR gate and then draft its truth table.

Group Example

	Α	В	Output
	0	0	1
	0	1	1
Look at the truth table.	1	0	1
Draw a logic gate that	1	1	0
represents it.		Gro	oup Example

A B

Label the gate and then draft a truth table for its outcomes.

Create an AND gate and then draft its truth table.

Look at the truth table. Draw a logic gate that represents it.

0	0	0
0	1	0
1	0	0
1	1	1

A B Output

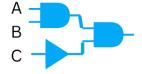
Create an NOR gate and then draft its truth table.

Look at the truth table. Draw a logic gate that represents it.

Α	В	Output
0	0	1
0	1	1
1	0	1
1	1	0



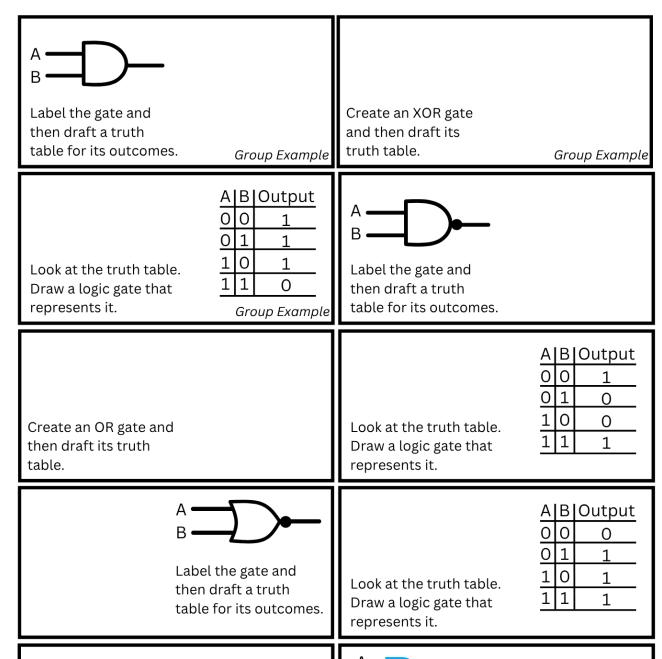
Label the gate and then draft a truth table for its outcomes.

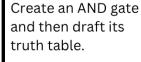


#### Challenge Problem!

Create a truth table for this series of Logic Gates.









#### Challenge Problem!

Create a truth table for this series of Logic Gates.







Label the gate and then draft a truth table for its outcomes.

Group Example

Create an XOR gate and then draft its truth table.

Group Example

	Α	В	Output
	0	0	1
	0	1	1
at the truth table.	1	0	1
a logic gate that	1	1	0

Look at the truth table. Draw a logic gate that represents it. A **D** 

1 0 th

Label the gate and then draft a truth table for its outcomes.

Create an NAND gate and then draft its truth table.

Look at the truth table.
Draw a logic gate that
represents it.

0	0	1
0	1	0
1	0	0
1	1	1

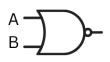
A|B|Output

Create an NOT gate and then draft its truth table.

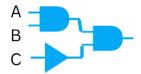
Look at the truth table. Draw a logic gate that represents it.

0	0	0
0	1	0
1	0	0
1	1	1

A|B|Output



Label the gate and then draft a truth table for its outcomes.



## Challenge Problem!

Create a truth table for this series of Logic Gates.



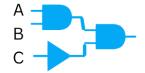
A B  Label the gate and then draft a truth table for its outcomes.	roup Example	Create an XOR gate and then draft its truth table.	Group Example
Look at the truth table.  Draw a logic gate that		A B  Label the gate and then draft a truth table for its outcomes.	
Create an AND gate and then draft its truth table.		Look at the truth table. Draw a logic gate that represents it.	A B Output 0 0 1 0 1 0 1 0 0 1 1 0
Create an OR gate and		Look at the truth table.	A B Output 0 0 0 0 1 1 1 0 1



then draft its truth

table.

Label the gate and then draft a truth table for its outcomes.



Draw a logic gate that

represents it.

### Challenge Problem!

Create a truth table for this series of Logic Gates.





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