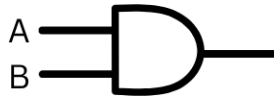


Name:

Date:

Class:

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

A	B	Output
0	0	1
0	1	1
1	0	1
1	1	0

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

Group Example



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

Create an AND gate and then draft its truth table.

A	B	Output
0	0	0
0	1	0
1	0	0
1	1	1

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

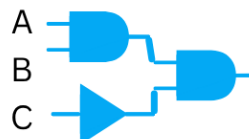
Create an NOR gate and then draft its truth table.

A	B	Output
0	0	1
0	1	1
1	0	1
1	1	0

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



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



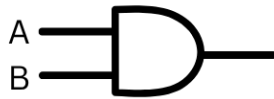
★ Challenge Problem!

Create a truth table for this series of Logic Gates.

Name:

Date:

Class:



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

A	B	Output
0	0	1
0	1	1
1	0	1
1	1	0

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

Group Example



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

A	B	Output
0	0	1
0	1	0
1	0	0
1	1	1

Create an OR gate and then draft its truth table.

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

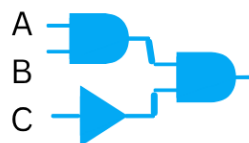


Label the gate and then draft a truth table for its outcomes.

A	B	Output
0	0	0
0	1	1
1	0	1
1	1	1

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

Create an AND gate and then draft its truth table.



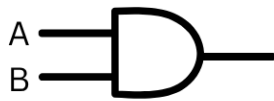
Challenge Problem!

Create a truth table for this series of Logic Gates.

Name:

Date:

Class:



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

Group Example

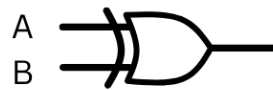
Create an XOR gate and then draft its truth table.

Group Example

A	B	Output
0	0	1
0	1	1
1	0	1
1	1	0

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

Group Example



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

Create an NAND gate and then draft its truth table.

A	B	Output
0	0	1
0	1	0
1	0	0
1	1	1

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

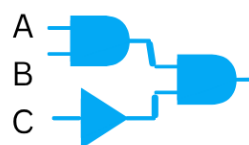
Create an NOT gate and then draft its truth table.

A	B	Output
0	0	0
0	1	0
1	0	0
1	1	1

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



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



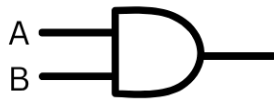
Challenge Problem!

Create a truth table for this series of Logic Gates.

Name:

Date:

Class:



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

Group Example

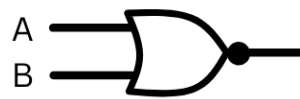
Create an XOR gate and then draft its truth table.

Group Example

A	B	Output
0	0	1
0	1	1
1	0	1
1	1	0

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

Group Example



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

A	B	Output
0	0	1
0	1	0
1	0	0
1	1	0

Create an AND gate and then draft its truth table.

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

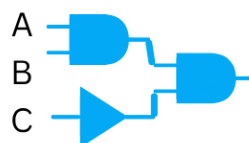
A	B	Output
0	0	0
0	1	1
1	0	1
1	1	0

Create an OR gate and then draft its truth table.

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



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



Challenge Problem!

Create a truth table for this series of Logic Gates.