



Open the door... please? PRINT PDF





Print this page and cut the squares.

You will need both triangle cards, but <u>only one</u> of the square cards. If you key safe/lock has a 3-digit code, you will need the <u>orange</u> square. If your key safe/lock has a 4-digit code, you will need the <u>blue</u> square.



MAZE RIDDLE – Part 1/2















The names and descriptions of the symbols have been mixed up. **Find the correct names by solving the maze.** The order in which you encounter the letters in the maze is the correct order. Draw the connections between the symbols and names below:

H	1
Ĺ ∳	2
\bigotimes	3
	4
	5
	6
I	7
Ω	8
V	9
Ļ	10

Funded by the Erasmus+ Programme of the European Union

	ELECTRIC CONSUMER			
Δ	An electric consumer is any electronic device that			
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	feeds from the power source of the circuit, for			
	example a lamp or even an electronic door.			
	ОНМ			
_	Ohm ( $\Omega$ ) is the unit for the resistance against which			
В	an electric current has to flow. The larger the			
	resistance, the greater the barrier to the flow of			
	current.			
	CAPACITOR			
C	A capacitor can store electrical energy and is used			
L	for transmitting a continuous flow of energy to			
	electric consumers. It helps bridging potential,			
	spontaneous changes of the current.			
	RESISTOR			
D	Resistors reduce the current flow and provide a			
	specific voltage for an electric consumer.			
	SWITCH			
	A switch is used to control the electric circuit. If it is			
E	closed, the current can flow through and feed the			
	electric consumers. If it is open, the current cannot			
	flow and no power is provided to the consumer.			
	Find this symbol to identify a correct card			
F	for the circuit board!			
	TRANSISTOR			
G	A transistor is a "transfer resistor" that can control			
0	the flow of electricity by switching or amplifying			
	electric signals.			
	<b>POWER SOURCE / BATTERY</b>			
Н	Every electronic circuit needs a power source from			
	which the electric current can flow.			
	CURRENT			
I	Current is a different word for electricity and it			
	should always flow in a closed circuit in order to be			
	functional.			
	The current is expressed in Ampere (A).			
	VOLTAGE			
J	Voltage expresses the "pressure" that a power			
	source puts on an electric current in the circuit. The			
	unit to measure this pressure is Volt (V).			





SOLUTION FOR GAME MASTER

SOLUTIONS						
POWER SOURCE / BATTERY   Every electronic circuit needs a power source from which the electric current can flow.		1-H				
¢ \$	<b>RESISTOR</b> Resistors reduce the current flow and provide a specific voltage for an electric consumer.	2 – D				
$\otimes$	<b>ELECTRIC CONSUMER</b> An electric consumer is any electronic device that feeds from the power source of the circuit, for example a lamp or even an electronic door.	3 – A				
	<b>SWITCH</b> A switch is used to control the electric circuit. If it is closed, the current can flow through and feed the electric consumers. If it is open, the current cannot flow and no power is provided to the consumer.	4 – E				
$\bigcirc$	<b>TRANSISTOR</b> A transistor is a " <b>trans</b> fer res <b>istor</b> " that can control the flow of electricity by switching or amplifying electric signals.	5 – G				
$\neq \neq \uparrow$	<b>CAPACITOR</b> A capacitor can store electrical energy and is used for transmitting a continuous flow of energy to electric consumers. It helps bridging potential, spontaneous changes of the current.	6 – C				
I	<b>CURRENT</b> Current is a different word for electricity and it should always flow in a closed circuit in order to be functional. The current is expressed in Ampere (A).	7 – I				
Ω	<b>OHM</b> Ohm ( $\Omega$ ) is the unit for the resistance against which an electric current has to flow. The larger the resistance, the greater the barrier to the flow of current.	8 – B				
V	<b>VOLTAGE</b> Voltage expresses the "pressure" that a power source puts on an electric current in the circuit. The unit to measure this pressure is Volt (V).	9 – J				
<b>y</b>	Find this symbol to identify a correct card for the circuit board!	10 - F				





### FIND AND HIGHLIGHT/CONNECT ALL SYMBOLS RELATED TO ELECTRONICS!

# THE RESULTING SHAPE HELPS YOU FIND ANOTHER PIECE FOR THE CIRCUIT BOARD!

ŢŢ	÷			Ū	(****) ***	
			Ċ			
<b>I</b>	Ų	$\blacksquare$		ΣŢŢ	<b>6</b> 6 6 6	
	<b>A</b>					
	۵ <b>۵</b>	Ċ		÷	S.	
			ပြ		<b>I</b> III IIIII	<b>A</b>
<b>*</b>	<b>6</b> <b>6</b> <b>6</b> <b>6</b>					$\blacksquare$





# SOLUTION FOR GAME MASTER









#### Print this page and cut out the note.

Fold it twice, but make sure that the text is visible when it is folded (this makes it easier for player to identify it as a hint).



Cut along the red lines.

Ľ

- 2. Fold the resulting shape in half to get a square and glue it together.
- 3. Cut along the grey lines.



Designed by macrovector / Freepik









### **DAMAGED** CONTROL ROOM DOOR CIRCUIT PLAN







## **REPAIRED** CONTROL ROOM DOOR CIRCUIT PLAN

