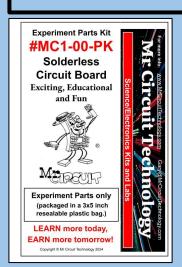
## Exciting, Educational and Fun



### **Exp. 28 - "ELECTRONIC CANARY CIRCUIT"**



.... .... .... .... ....

.... .... .... .... ....

#### **LESSON PLAN**

#### **Table of Contents**

Page 01 - Explanation of the Experiment - part 1 of 2

Page 02 - Explanation of the Experiment - part 2 of 2

Page 03 - Purpose of the Experiment and Parts Needed

Page 04 - Do the Experiment (part 1 of 2)

Page 05 - Do the Experiment (part 2 of 2)

Page 06 - Crossword Puzzle

Page 07 - Word Search Puzzle

Page 08 - Written 10-Question Multiple Choice Quiz

Page 09 - Answers to Crossword

Page 10- Answers to Word Search

Page 11 - Answer Key to Written Quiz

Page 12 - Poster to put up on classroom wall

Page 13 - Price List for Parts Kits for your to order more. Send Purchase Order to <a href="mailto:Gary@MrCircuitTechnology.com">Gary@MrCircuitTechnology.com</a> or order online at <a href="https://www.MrCircuitTechnology.com">www.MrCircuitTechnology.com</a>





**PREPARATION:** You can put the Page 12 poster up on your classroom wall to announce the fact that you are going to do the Science-Electronics Experiment.

**Step 1** - Make a copy of pages 1 through 8 for each student. The students can read and do these pages on their own or you can guide them.



**Step 2** - Hand out Parts Kit #MC1-00-PK (that has the Solderless Circuit Board) and Parts Kit #MC1-28-PK (that has the experiment parts) with a 9-Volt battery. Give these items to each student along with the 8 pages.

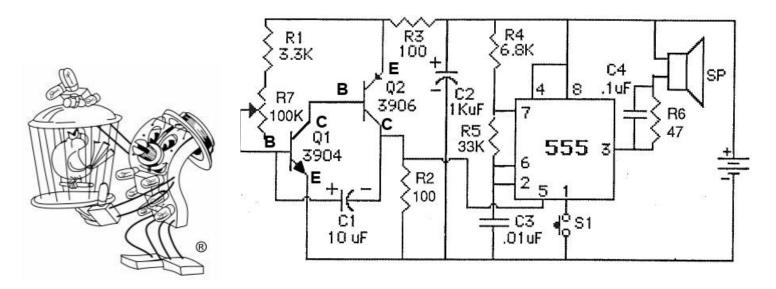
**Step 3** - When your students have completed the experiment, collect all the Parts Kits and batteries for later use.

**Step 4** - Collect all the Written Quizzes for grading and use the Answer Key to grade them.

For Tech Support or any questions, you can email us or call 805-295-1642

## **EXPLANATION OF EXPERIMENT part 1 of 2**

\*\*\* You are going to build an ELECTRONIC CANARY circuit. Here is the SCHEMATIC DIAGRAM of the circuit you will build.



This interesting circuit was invented by engineers who wanted a circuit that would make sounds similar to a Canary singing.

This is a fun circuit to play with. If there are live birds around, when they hear it it will cause them to chirp.

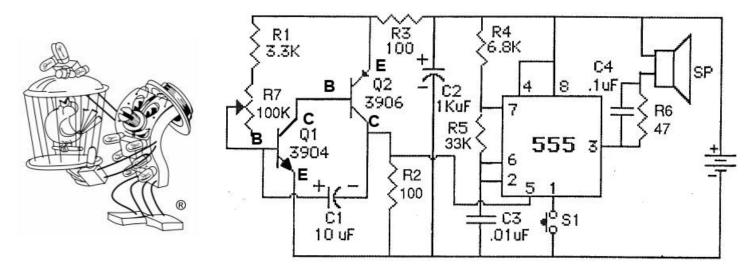
Mr Circuit is holding a bird cage with bird in it...

It is amazing how many circuits can be made with a few well chosen electronic components.

(Continue to Page 2)

## EXPLANATION OF EXPERIMENT part 2 of 2

Let's talk about how the circuit works. Here is the schematic of the **ELECTRONIC CANARY** circuit that you will build.



This circuit uses a 555 Integrated Circuit as a **CLOCK to make an oscillator**. Then Pin 3 emits a **signal** to the speaker. Transistors Q1 and Q2 form a another oscillator. These two oscillators are connected in series.

Potentiometer R7 is adjusted to vary the frequency of the first oscillator and this frequency is fed into Pin 5 of the second oscillator made with the 555 Integrated circuit.

The audio frequency of the first oscillator is "injected" into the second oscillator through Pin 5. The audio signal coming out of the speaker is a mixture of these two oscillators.

By pressing and releasing the Push Button switch while continuously adjusting the potentiometer, you can create some interesting bird chirping sounds.

(Continue to Page 3)



#### **ELECTRONIC CANARY CIRCUIT**

# (Page 3)

MC1-28-R-3

## PURPOSE OF THIS EXPERIMENT

\*\*\* To build an ELECTRONIC CANARY Using a 555 Integrated Circuit.

#### PARTS NEEDED FOR EXPERIMENT

In this experiment, you will use the following:





**9V Battery Snap** 

Potentiometer

0.01uF Cap

555 IC









47 Ohm resistor



100 Ohm resistor

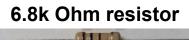


100 Ohm resistor

33k Ohm resistor

3.3k Ohm resistor





9 Jumper Wires

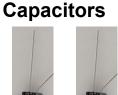
Solderless Circuit Board

N/O Push **Button Switch** 





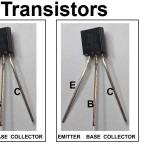
**NPN & PNP** 



10uF & 1000uF





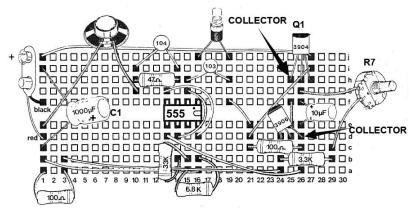


(Continue to Page 4)

MC1-28-R-4

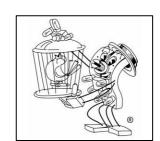
# DO THE EXPERIMENT (part 1 of 2)

Step 1 - Take out all the parts needed for this experiment.



### Step 2 - Install all the parts on the SCB as shown above.

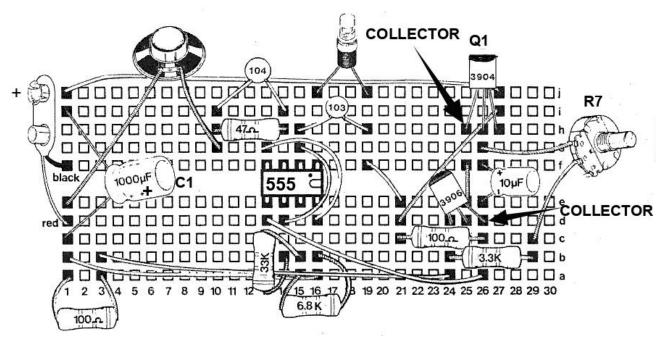
Install a 47 Ohm resistor (yellow, violet, black, gold) in holes 10h to 14h
Install a 100 Ohm resistor (brown, black, brown, gold) in holes 1a to 3a
Install a 100 Ohm resistor (brown, black, brown, gold) in holes 21c to 26c
Install a 3.3k Ohm resistor (orange, orange, red, gold) in holes 24b to 29b
Install a 6.8k Ohm resistor (blue, gray, red, gold) in holes 15a to 16b
Install a 33k Ohm resistor (orange, orange, orange, gold) in holes 24b to 29b
Install the 555 Timer IC with Pin 1 in hole 16f as shown in pictorial (careful!)
Install a NPN 3904 Transistor - Collector in 25h, Base in 26h, Emitter in 27h
Install a PNP 3906 Transistor - Emitter in 24d, Base in 25d, Collector in 26d
Install a 0.01uF Capacitor in 15h to 19h AND Install a 0.1uF disc Capacitor in 10i to 14i
Install a 10uF Electrolytic Capacitor - Long lead in hole 26f Short lead in hole 26e
Install a 1000uF Electrolytic Capacitor - Long lead in hole 1c Short lead in hole 1i
Install a Push Button Switch in holes 16j to 19j AND Install a Speaker in holes 1e to 10g
Install a Potentiometer - middle lead in 29c, edge lead in 26g
Install Speaker from hole 1e to 10g
Install Jumper Wire #1 in holes 1b to 24a AND Install Jumper Wire #2 in holes 3b to 24a
Install Jumper Wire #3 in holes 1j to 27j AND Install Jumper Wire #4 in holes 13g to 16d
Install Jumper Wire #5 in 14d to 15g <b>AND</b> Install Jumper Wire #6 in holes 19f to 21e
Install Jumper Wire #7 in holes 21d to 27i AND Install Jumper Wire #8 in 25e to 25f
Install Jumper Wire #9 in holes 13d to 26a
Install the Battery Snap, Black lead in hole 1f and Red Lead in hole 1d



(Continue to Page 5)

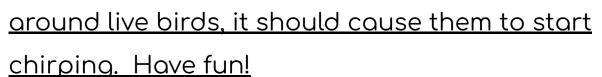
MC1-28-R-5

# DO THE EXPERIMENT (part 2 of 2)



Step 3 - Connect the battery to the Battery Snap. Press
the Push Button switch and you should hear sounds from
the speaker. By pressing and
releasing the Push Button switch while

you adjust the Potentiometer back and forth you should be able to create interesting bird chirping sounds. If you use this circuit





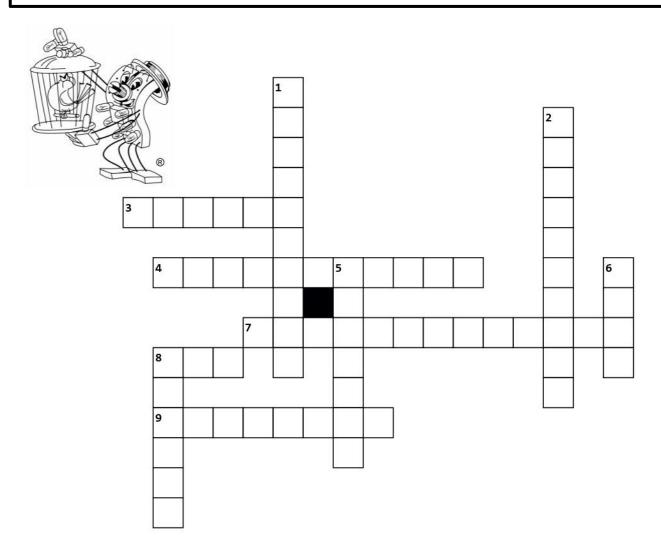
(End of Experiment 28)



#### **CROSSWORD**

(Page 6)

#### **Exp. 28 - "ELECTRONIC CANARY CIRCUIT"**



Acro	SS
------	----

- 3. This circuit is used to make \_\_\_\_\_\_
  of a chirping bird.
  4. One of the oscillators in this circuit is made up of two \_\_\_\_\_\_
  7. In this circuit, the \_\_\_\_\_\_
- **7.** In this circuit, the \_\_\_\_\_ is used to vary chirping sounds.
- **8.** How many fixed resistors are used in this circuit?
- **9.** The signal from the first oscillator is "fed" or into Pin 5 of the 555 IC.

#### Down

- **1.** Q1 is an NPN \_\_\_\_\_\_ .
- 2. The 555 Integrated Circuit is used to make an
- **5.** The chirping sounds are emitted by the \_\_\_\_\_ in the circuit.
- **6.** This circuit is designed to imitate a \_\_\_\_\_ chirping.
- **8.** Pin 1 of the 555 Integrated Circuit is connected to a \_\_\_\_\_ .



### **WORD SEARCH**

(Page 7)

## Exp. 28 - "ELECTRONIC CANARY CIRCUIT"



	]	L	Μ	G	Α	0	0	G	Χ	Н	С	Τ	Ι	M	S	Ε	D	Ζ	W	Ε	J			
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	1	N	Ε	С	K	Y	R	Α	Ν	Α	С	С	Χ	В	Τ	S	Ι	Χ	С	F	F			
		A	Ι	С	Р	Ζ	U	U	Ε	Y	S	R	Ε	Ε	N	Ι	G	N	Ε	R	Ο			
		Ι	G	U	0	Ε	N	Ε	Μ	L	Y	Y	М	N	Ζ	Ι	С	F	M	0	Α			
		Ι	Н	G	Τ	D	Ι	0	M	V	J	J	Ι	G	Р	A	Р	Н	K	Τ	Α			
	( <sub>B</sub> I	M	Τ	A	U	S	S	R	K	F	L	В	Ε	Ι	N	M	F	L	0	S	K			
		Γ	Α	J	F	М	Α	Y	В	M	Y	С	Ι	K	Τ	A	J	Y	A	I	D			
	1	Y	R	Ε	Τ	Ε	M	0	Ι	Τ	N	Ε	Τ	0	Р	K	N	Y	Ζ	S	J			
	]	Н	A	D	R	U	Χ	X	Ζ	Ε	Ε	X	F	N	G	F	Τ	C	Χ	N	Ι			
	]	K	W	Ζ	D	S	L	S	K	K	J	Y	Р	$\bigvee$	Ε	A	D	Χ	$\bigvee$	A	Τ			
	j	Р	Q	Q	U	Н	M	M	Ι	Р	S	В	R	Z	P	В	U	S	M	R	M			
	į	J	С	A	$\bigvee$	$\bigvee$	E	Q	M	M	S	Ι	K	$\bigvee$	D	В	Ι	C	В	Τ	0			
	1	U	Q	$\bigvee$	N	Q	Р	Ι	S	F	Ι	G	C	S	G	U	Q	Τ	X	J	E			
		-	Z	R	D	0	C	$\bigvee$	D	Ι	J	Z	0	J	Q	D	J	Τ	D	U	$\bigvee$			
		Z	X	0	L	N	Q	A	Τ	Q	G	F	L	Н	G	$\bigvee$	R	Τ	Y	A	R			
	(	Q	$\bigvee$	M	M	G	0	D	Η	В	G	F	C	G	Q	Τ	0	Ι	D	U	A			
	Ì	F	L	В	0	Y	Р	Ι	G	F	Y	K	Ι	K	Y	M	M	M	K	G	U			
	I	M	X	S	R	0	Τ	A	L	L	Ι	C	S	0	Τ	F	L	J	D	Q	0			
	Ì	A	S	Q	C	A	J	Z	0	Q	Y	Z	K	R	Р	M	U	V	В	0	G			
			1	. Th	nis c	ircu	ıit is	ma	ide i	up c	of tw	′o _												
			2.	. Th	is c	ircu	it wa	as ir	nver	nted	by													
		3	. Tł	nis d	circu	ıit w	/ill m	nake	e so	und	s lik	e a						chi	rpin	g.				
	4	4. <sup>-</sup>	The	55	5 In	tegr	ate	d Ci	rcui	t is	wor	king	like	e a _					ciro	cuit.				
			5.								Q1 i	is pa	art c	of ar	ı os	cilla	tor	circ	uit.					
		6.							_ R7											ls.				
<b>7.</b> The _						sig	nal	fron	n the	e fir	st o	scill	ator	is f	ed i	nto	Pin	5 o	f the	e se	con	d osc	illato	or.
	<b>8.</b> The	Pu	sh l	Butt	on							is	use	d to	cha	ange	the	e ch	irpir	ng s	oun	ds.		

second oscillator.

10. How many pins does the 555 Integrated Circuit have?

9. The audio signal from the first oscillator, made of two transistors, is \_\_\_\_\_ into the



# QUIZ for Exp 28 or STEM KIT #28 in the Mr Circuit Electronics Training Lab 1

(Page 8)

#### This Quiz covers the training learned by completing



#### "Build an Electronic Canary Circuit" Experiment 28

Circle the letter for your answer to each question and then hand this quiz in to your teacher.

	/		
A	#1 This circuit uses a 555 Timer IC and	#6 The output of the two-transistor oscillator is fed into of the 555 Timer IC .	A
В			В
	A. an SCR	<b>A.</b> Pin 5	
С	<ul><li>B. a variable capacitor</li><li>C. a two-transistor oscillator</li></ul>	<b>B</b> . Pin 6 <b>C</b> . Pin 7	C
D	D. a Photocell	D. Pin 8	D
ט	21 d i liotoson	<u></u>	, ,
Α	#2 R1 is connected to	#7 Switch S1 is connected to	A
В			В
	<b>A</b> . R3	<b>A.</b> Pin 4	
С	<b>B</b> . R7	<b>B</b> . Pin 1	C
<b>D</b>	<b>C</b> . C1 <b>D</b> . R2	<b>C.</b> Pin 3 <b>D.</b> Pin 6	_
D	D. NZ	D. Fill 0	] D
٨	<b>#3</b> On the 555 Timer	#8 One side of the speaker is connected directly	] ,
Α		to	A
В			В
_	A. all but pin 5 are used	A. the Base of Q1 B. the Emitter of Q2	
С	<ul><li>B. all but pin 4 are useds</li><li>C. all 8 pins are used</li></ul>	C. Pin 2 on the 555 Timer IC	C
D	D. only 6 pins are used	<b>D.</b> the positive of the battery	D
	7 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		, ,
Α	#4 The purpose of this circuit is to	#9 C4 and R6 are connected in parallel to the	A
^		speaker and of the 555 Timer	_ ^
В		IC.	В
	A. emit a siren sound	<b>A.</b> Pin 3	
С	B. emit bird chirps C. sense heat	<b>B</b> . Pin 4 <b>C</b> . Pin 5	
D	D. sense light	D. Pin 8	D
D	D. Scrise light	<b>D.</b> 1 m 0	J
٨	#5 How do you make the circuit emit different	<b>#10</b> Capacitor C1 is part of	٦ ,
Α	tones?		A
В			В
_	A. connect and disconnect the battery	A. the two-transistor oscillator circuit	
С	<b>B.</b> adjust R7 and press the pushbutton	B. the voltage regulator circuit	C
Ь	C. vary the heat in the room	C. the power supply circuit	_
D	D. feed it birdseed	D. output circuit	] D
	•	n SQ28) Score	
	Copyright © Mr Circ	cuit Technology 2022	



#### **ANSWERS FOR CROSSWORD**

#### **Exp. 28 - "ELECTRONIC CANARY CIRCUIT"**

³S	0	U	N	D	<sup>1</sup> T R A N S									<sup>2</sup> 0 S C		
					I									L		
	4T	R	Α	N	S	Ι	⁵S	Т	0	R	S			L		6B
					Τ		Р							Α		I
				<sup>7</sup> Р	0	Т	Е	N	T	I	0	М	Ε	Т	Ε	R
	8S	I	Χ		R		Α							0		D
	W						K							R		
	9I	N	J	Е	С	Τ	Е	D								
	Т						R									
	C H						e de la companya de l									

- **8.** How many fixed resistors are used in this circuit?
- **9.** The signal from the first oscillator is "fed" or \_\_\_\_\_ into Pin 5 of the 555 IC.

#### Down

- **1.** Q1 is an NPN \_\_\_\_\_\_ .
- 2. The 555 Integrated Circuit is used to make an
- **5.** The chirping sounds are emitted by the \_\_\_\_\_ in the circuit.
- **6.** This circuit is designed to imitate a \_\_\_\_\_ chirping.
- **8.** Pin 1 of the 555 Integrated Circuit is connected to a \_\_\_\_\_\_ .



## **ANSWERS FOR WORD SEARCH**

## Exp. 28 - "ELECTRONIC CANARY CIRCUIT"

1		V	G	A	$\circ$	$\circ$	G	X	$\Box$	C	Τ.	1	W	5)	Ł	D	Z	W	Ł	J	
Ι		A	V	$\bigvee$	Р	Y	Ζ	0	$\mathbf{L}$	M	$\bigcirc$	Ε	Τ	С	Ε	J	N	D	N	S	
V	N (	$\mathbb{E}$	С	K	(Y	R	A	N	A	$\mathbb{C}$	С	X	В	Τ	S	Ι	Χ	C	F	F	
I	$A \mid E$	I	C	Р	Z	U	U	Ε	Y	$\bigcirc$	R	Ε	Ε	N	Ι	G	N	E	R	O	
]	Ι	G	U	0	Ε	N	Ε	M	$\mathbf{L}$	Y	Y	M	N	Z	Ι	C	F	M	0	A	
]		Н	G	Τ	D	Ι	0	M	$\bigvee$	J	J	Ι	G	P	A	Р	Н	K	T	A	
I,	'J P	IJ	A	U	S	S	R	K	F	L	В	Ε	Ι	N	M	F	$\mathbf{L}$	0	S	K	
9	Γ	A	J	F	M	A	Y	В	M	Y	C	Ι	K	Τ	A	J	Y	A	I	D	
7	Y (	R	Ε	Τ	Ε	М	0	Ι	Τ	N	Ε	Τ	0	P	K	N	Y	Z	S	J	
F	H	A	D	R	U	X	X	Ζ	Ε	Ε	X	F	N	G	F	Τ	C	X	N	I	
ŀ	< 1	M	Z	D	S	L	S	K	K	J	Y	Р	V	Ε	A	D	Χ	$\bigvee$	А	T	
I	2 (	Q	Q	U	Н	M	M	Ι	Р	S	В	R	Z	P	В	U	S	M	R	W	
Ċ	J (	С	A	V	V	Ε	Q	M	M	S	Ι	(K)	V	D	В	Ι	C	В		0	
J	J (	Q	V	N	Q	Р	Ι	S	F	Ι		C	S	G	U	Q	Τ	X	J	E	
E	Ξ :	Ζ	R	D	0	С	V	D	Ι	J	Z	0	J	Q	D	J	Τ	D	U	V	
Z	Ζ :	X	0	L	N	Q	A	Т	Q	G	F	L	Н	G	V	R	Т	Y	A	R	
ζ		V	M	M	G	0	D	Н	В	G	F	$\mathbb{C}$	G	Q		0	I	D	U	A)	
E		L	В	0	Y	Р	I	G	F	Y	K	I	K	Y	M	М	M	K	G	U	
<u></u>		X (		R	0	<u>T</u>	<u>A</u>	0.00000000	<u>L</u>	100749450	<u>C</u>	W. S. C. S. C. S.			F	L	J	D	Q	O	
P	A	S	Q	С	A	J	Z	Ο	Q	Y	Z	K	R	Р	M	U	V	В	0	G	
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	•																				
	3.	ın	IIS C	ircu	IIT W	'III M	аке	e so	una	SIIK	(e a						cni	rpın	g.		
4	I. T	he	555	5 In	tegr	ated	d Ci	rcui	t is	wor	king	like	ea_					ciro	cuit.		
		5.							(	Q1 i	is p	art c	of ar	os	cilla	tor	circ	uit.			
	6.							_ R7	7 is	use	d to	adj	ust	the	chir	ping	g so	unc	ls.		
. The					sig	nal :	fron	n the	e firs	st o	scill	ator	is f	ed i	nto	Pin	5 o	f the	e se	cond oscillator	
<b>8</b> . The F	ous	h E	3utt	on _							is	use	d to	cha	nge	e the	e ch	irpir	ng s	sounds.	
The audio sign second oscillat		ror	n th	ne fi	rst d	scil	llato	r, m	nade	e of	two	trar	nsist	tors	, is					into the	

10. How many pins does the 555 Integrated Circuit have?

#### QUICK-CHECK ANSWER KEY for Experiment 28 QUIZ for Mr Circuit Electronics Training ("Electronic Canary")

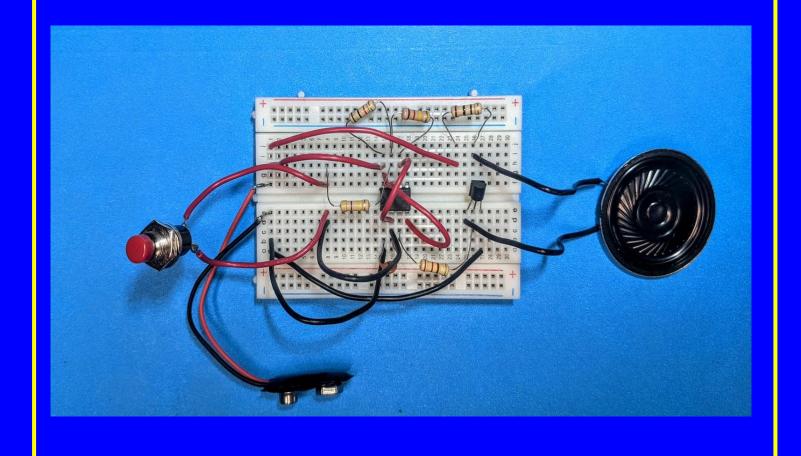
Place this sheet over top of the STUDENT QUIZ (offset a little to the left and then offset to the right) to compare the answers on this sheet to the answers that the student marked. Put an 'X' for each wrong answer.

Count the right answers and record the score of right answers

	our grade book.	Exploratory Hands-On ELECTRONICS LAB #1101	
Α	#1 This circuit uses a 555 Timer IC and	#6 The output of the two-transistor oscillator is	A
_		fed into of the 555 Timer IC .	
В		A B: 5	В
$\bigcirc$	A. an SCR	<b>A.</b> Pin 5 <b>B.</b> Pin 6	
	<ul><li>B. a variable capacitor</li><li>C. a two-transistor oscillator</li></ul>	C. Pin 7	
D	D. a Photocell	<b>D.</b> Pin 8	D
	2. 4. 16.666.	<u></u>	J
Α	#2 R1 is connected to	#7 Switch S1 is connected to	Α
B	<b>A</b> . R3	<b>A</b> . Pin 4	(B)
C	<b>B.</b> R7	B. Pin 1	$\stackrel{\smile}{ }$
•	<b>c</b> . C1	<b>C.</b> Pin 3	
D	<b>D</b> . R2	<b>D</b> . Pin 6	D
			_
Α	#3 On the 555 Timer	#8 One side of the speaker is connected directly	Α
В		to	В
	A. all but pin 5 are used	A. the Base of Q1	
$\bigcirc$	B. all but pin 4 are useds	<b>B</b> . the Emitter of Q2	С
	C. all 8 pins are used	C. Pin 2 on the 555 Timer IC	
D	<b>D.</b> only 6 pins are used	<b>D.</b> the positive of the battery	] ( D <sub>/</sub>
Α	#4 The purpose of this circuit is to	#9 C4 and R6 are connected in parallel to the	( A `
	·	speaker and of the 555 Timer	
(B)	A smit a siran sound	IC.	В
$\overset{\smile}{C}$	A. emit a siren sound B. emit bird chirps	<b>A.</b> Pin 3 <b>B.</b> Pin 4	C
O	C. sense heat	C. Pin 5	
D	D. sense light	<b>D.</b> Pin 8	D
		J L	J 
Α	#5 How do you make the circuit emit different	#10 Capacitor C1 is part of	$\bigcap$
	tones?		$  \bigcirc \rangle$
B )			В
	A. connect and disconnect the battery	A. the two-transistor oscillator circuit	
С	<b>B.</b> adjust R7 and press the pushbutton	B. the voltage regulator circuit	
D	C. vary the heat in the room	C. the power supply circuit	D
$\boldsymbol{\mathcal{L}}$	<b>D.</b> feed it birdseed	D. output circuit	

# BUILD A BETTER FUTURE by UNDERSTANDING SCIENCE-ELECTRONICS

# **ELECTRONIC CANARY**



**BASIC ELECTRONICS LAB 1** 

# "ELECTRONIC CANARY CIRCUIT"

(Poster MC1-28-P01)

(Page 12)





#### **PRICE LIST**

PARTS KIT	Mr Circuit Series 1	Price
Number	PARTS KITS FOR "LESSON PLANS"	Each
MC1-00-PK	Solderless Circuit Board to build kits	\$3.95
MC1-01-PK	Parts Kit for "How a Resistor Works	\$1.95
MC1-02-PK	Parts Kit for "How a Potentiometer Works	\$2.95
MC1-03-PK	Parts Kit for "How a Photocell Works	\$1.95
MC1-04-PK	Parts Kit for "How a Capacitor Works	\$2.95
MC1-05-PK	Parts Kit for "How a Speaker Works	\$2.95
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MC1-25-PK	Parts Kit for "Code Oscillator circuit	\$4.95
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MC1-SET-PK	Complete Set of All Series 1 Parts Kits (31 total)	\$120.00