

Electronics

Module Activity Sheet

Name _____ Block _____

Enter Date example: Oct. 25

Session # 1

Module Guide Score = _____ / 10 Date Completed _____
Night Light Assembly Activity..... Date Completed _____
Review Game (Bloop or Critter Cross Played)Date Completed _____

Session # 2

RCA 's Score = _____ / 30 Date Completed _____
Invisible Beam Alarm Assembly Activity Date Completed _____
Vocabulary Page Completed in Packet (Pg. 5)..... Date Completed _____

Session # 3

RCA's Score = _____ / 30 Date Completed _____
Police Siren Assembly Activity Date Completed _____
Assessment Answers Completed in Packet (Pg. 2)... Date Completed _____
Technical Writing Page Completed in Packet(Pg. 6) Date Completed _____

Session # 4

RCA's Score = _____ / 30 Date Completed _____
Touch Switch Assembly Activity Date Completed _____
Career Sheet Page Completed in Packet (Pg. 7)..... Date Completed _____

Session # 5

RCA's Score = _____ / 30 Date Completed _____
Soldering Practice Activity Date Completed _____
Assessment Answers Completed in Packet (Pg. 3)... Date Completed _____
Word Search Page Completed in Packet (Pg. 8)..... Date Completed _____

Session # 6

Test Review "Game" Date Completed _____
Blinky Kit Assembly Activity Date Completed _____
Test Review Page Completed in Packet (Pg. 9)..... Date Completed _____

Session # 7

Post Test Score = _____ / 100 % Date Completed _____
Kit Assembly Completed Date Completed _____
Bonus Activity if time permits – see teacher..... Date Completed _____
Assessment Answers Completed in Packet (Pg. 4)... Date Completed _____
I Have Inspected My Packet – It is Complete..... Date Completed _____

Electronics

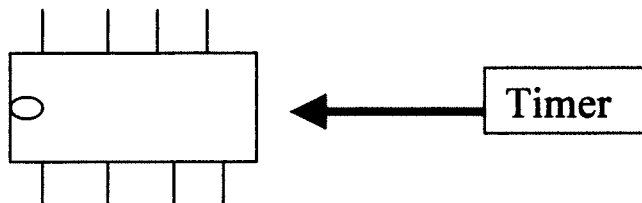
Assessment Worksheet for Session 3

Instructions: On the session day indicated above, please write the answers to the assessment questions.

If you need more room to write a response – use the back of this page.

Session 3 – Solderless Circuit: Police Siren

1. **What** was the hardest part of completing the “Police Siren” circuit.
2. **Explain** what causes the circuit to sound like a police siren.
3. **Explain** how to assemble a solderless circuit. (Basically - how do you do this)
4. **Number** the pins or legs on the time below.



Assessment Worksheet for Session 5

Instructions: On the session day indicated above, please write the answers to the assessment questions.

If you need more room to write a response – use the back of this page.

Session 5 – Soldering Practice

1. List two good rules to follow for soldering safety.

1.

2.

2. Identify the two metals that make up solder.

1.

2.

3. Describe the correct method for applying solder to the electronic component. (How do you solder?)

4. List any three devices you encounter in the daily world that contain solder electrical circuits.

1.

2.

3.

Electronics Vocabulary Worksheet

Please write a definition for each vocabulary term.

1. Capacitor -

2. Circuit (Etched)-

3. Circuit (Printed)-

4. Frequency-

5. Ohm's Law-

6. Resistance-

7. Relay-

8. Schematic-

9. Power-

10. Volt-

11. Heat sink-

12. Force-

13. Rotor-

14. Switch-

15. Watt-

Electronics Career Investigation

From the ***Occupational Outlook Handbook*** –Look up the career that is assigned to your module topic. Using the information in the book answer the following question about the assigned career. The career for your module is:

Computer / Automated Teller and is on Page 547

1. **Nature of the work** (What does the occupation do?):
 - A.
 - B.
2. **Working conditions** (Ex. inside / outside, clean / dirty, safe / hazardous etc.):
3. **Training or education needed, other qualifications required, and possible advancements / promotions:**
4. **Job Outlook** (In the future, what is the demand / forecast for this job):
5. **Earnings** (What is the average salary / income for this career):
6. **Related occupations** (What other occupations are part of the selected topic):
 - A.
 - B.
7. **Sources of additional information** (Sites, agencies or references to provide more information on your selected occupation):
 - A.
 - B.

Electronics WordSearch

S M H O A F P Y M H E E M I U P N L F P
 X E R I O T M T R E T E M M T C S E N I
 L I T A T T A W Y A L E R H H S R O R D
 O D G G L I L E G D E B S A S I Z E K H
 G E C I T A M E H C S C O O O R W H K E
 E J R U H S Y C N E U Q E R F O O Y I S
 R O T I C A P A C E D T L B P O I N P P
 Y T I C I R T C E L E T B Y F R R K T M
 O S Y O C S B L A G C P Y S Z K Q T I Y
 T B T P I B I A O Z O E E N E X M R K H
 N O O S R L X R O V R A R R T E R E Q M
 O A E T C I Q E E E K V E F S H E N S T
 P R M R U N N R E N R O M I H X S L R O
 A D S P I K O T K R X D F T M E O R C L
 X E E N T Y V R E E O M O D A K I E D N
 R E U B E O Y C I D E H C T E C V S T O
 H I D C L R O M E G O E B F C P W D E L
 S S E W L E S Y X P L I U X C S I X T S
 E T J K C R X S D A D J D T C A P Q E E
 A N J K E W T P W X A O I N B L T S N I

Find the following hidden words:

**capacitor, circuit, etched, printed, frequency, ohms, resistance, relay,
 schematic, power, volt, watt, amp, diode, iron, board, blinky, alarm,
 siren, problem, electricity**

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Test Review

Circle the correct answers while playing the Review Game at the beginning of Session # 6.

1. What is the function of a transistor, which is an electronic device with three terminals that is made of semiconductor materials.
 - A. tune electrical current
 - B. reverse electrical current
 - C. amplify electrical current
 - D. switch electrical current on and off
2. Silicon is best described by which of the following terms?
 - A. conductor
 - B. insulator
 - C. semiconductor
 - D. terminator
3. Which of the following electronic components limits the amount of electrical current flowing through a circuit?
 - A. capacitor
 - B. resistor
 - C. transistor
 - D. LED
4. Which of the following choices is the most common method of making electrical connections?
 - A. adhesive bonding
 - B. crimping
 - C. snap joining
 - D. soldering
5. What function does a capacitor perform within a circuit?
 - A. amplifies electrical energy
 - B. eliminates electrical energy
 - C. stores electrical; energy
 - D. elevates electrical energy
6. Identify in correct order the standard units for voltage, resistance and current?
 - A. volts, ohms, and amps
 - B. volts, amps, and ohms
 - C. watts, ohms, and joules
 - D. ohms, joules, and amps
7. What is a single electronic component that replaces an entire group of separate components?
 - A. inverted circuit
 - B. integrated circuit
 - C. complex circuit
 - D. integral circuit
8. What is an LED?
 - A. lens emitting diode
 - B. laser energized diode
 - C. laser emitting diode
 - D. light emitting diode
9. Identify the circuit where patterns are etched into a thin layer of copper to form conducting paths.
 - A. pattern circuit
 - B. printed circuit
 - C. digital circuit
 - D. analog circuit
10. Which one of the following electronic components allows electrical current to flow with a circuit in only one direction?
 - A. capacitor
 - B. transistor
 - C. resistor
 - D. diode