

272- Q06

BCTHS MECHATRONICS TECHNOLOGY

NAME: _____

START DATE: ____/____/____

COMPLETION DATE: ____/____/____

TASK: Q-06 Schematic Symbols

PERFORMANCE OBJECTIVE: *Given a schematic diagram the student will identify 20 different symbols from memory with 100% accuracy.*

ENABLING OBJECTIVE: *Study schematic diagrams and Flash cards.*

SAFETY FACTORS: *Complete Q01-Q02*
Observe all school/classroom safety rules at all times

ACADEMIC ANCHORS:

R11.A.1.3.5 Demonstrate after reading understanding of non-fiction text

R11.A.2.1.2 Identify meaning of content specific words used in text

CAREER & WORK ANCHORS:

13.2.11.E Demonstrate essential workplace skills.

PERFORMANCE CHECKLIST:

STUDENT CHECK	TASK TO BE COMPLETED	TEACHER SIGN OFF
_____	1. Identify academic anchors and complete learning guide AA01	_____
_____	2. Memorize Schematic Sheet @ bcths.net	_____
_____	3. Complete Performance Sheet	_____
_____	3. Complete Schematic symbol Kahoot activity	_____
_____	4. Get Quiz from Instructor	_____

PERFORMANCE LEVEL:

MASTERY

SATISFACTORY

FAMILIARIZATION

INSTRUCTED/CANNOT PERFORM

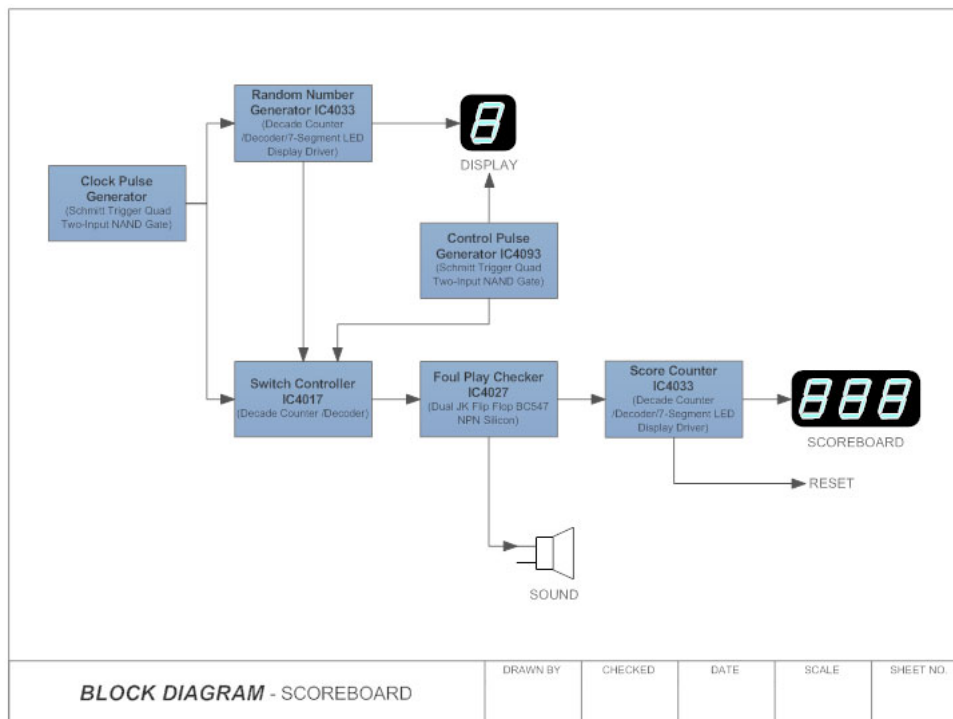
BUCKS COUNTY TECHNICAL SCHOOL – March 3, 2021

INSTRUCTOR'S SIGNATURE

INFORMATION SHEET

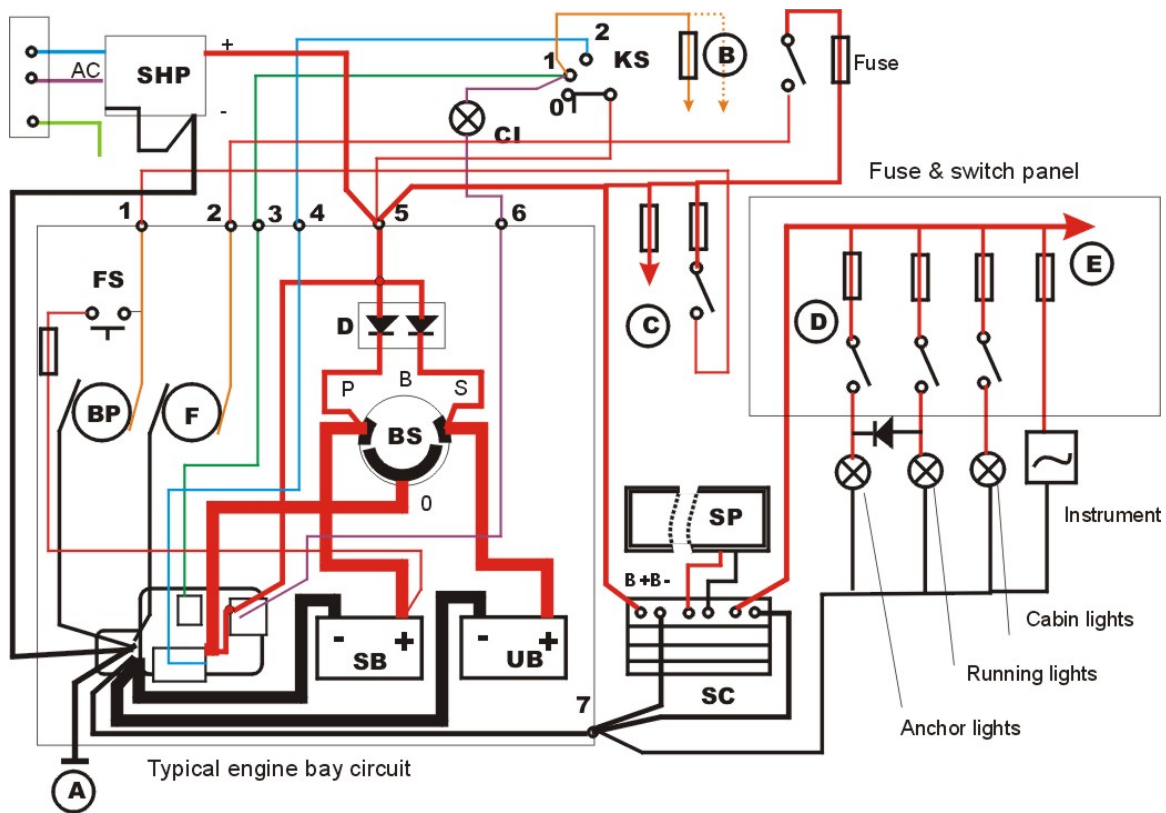
There are 3 types of diagrams that engineers and technicians utilize; SCHEMATIC, BLOCK, and WIRING diagrams.

The Block diagram is a simplified diagram identifying each circuit and how they are interconnected in an electronic device or system



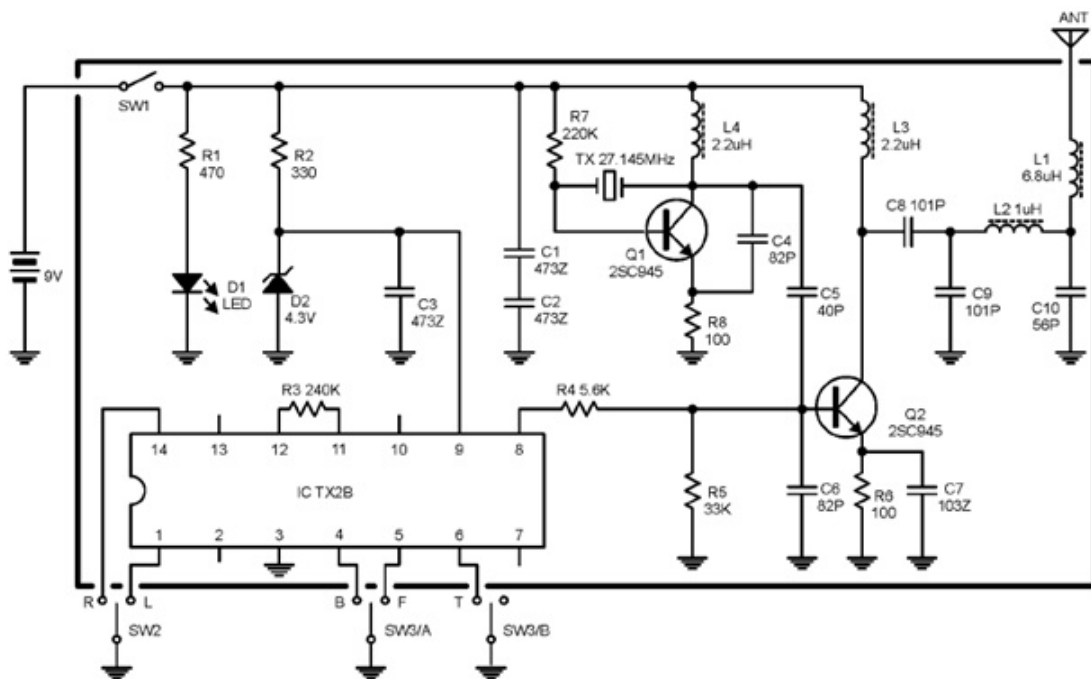
Block Diagram

A wiring diagram is used to show where wires, wiring harnesses, circuit boards, electronic components and electronic systems connect together. A wiring diagram will usually show the location and color of each wire.



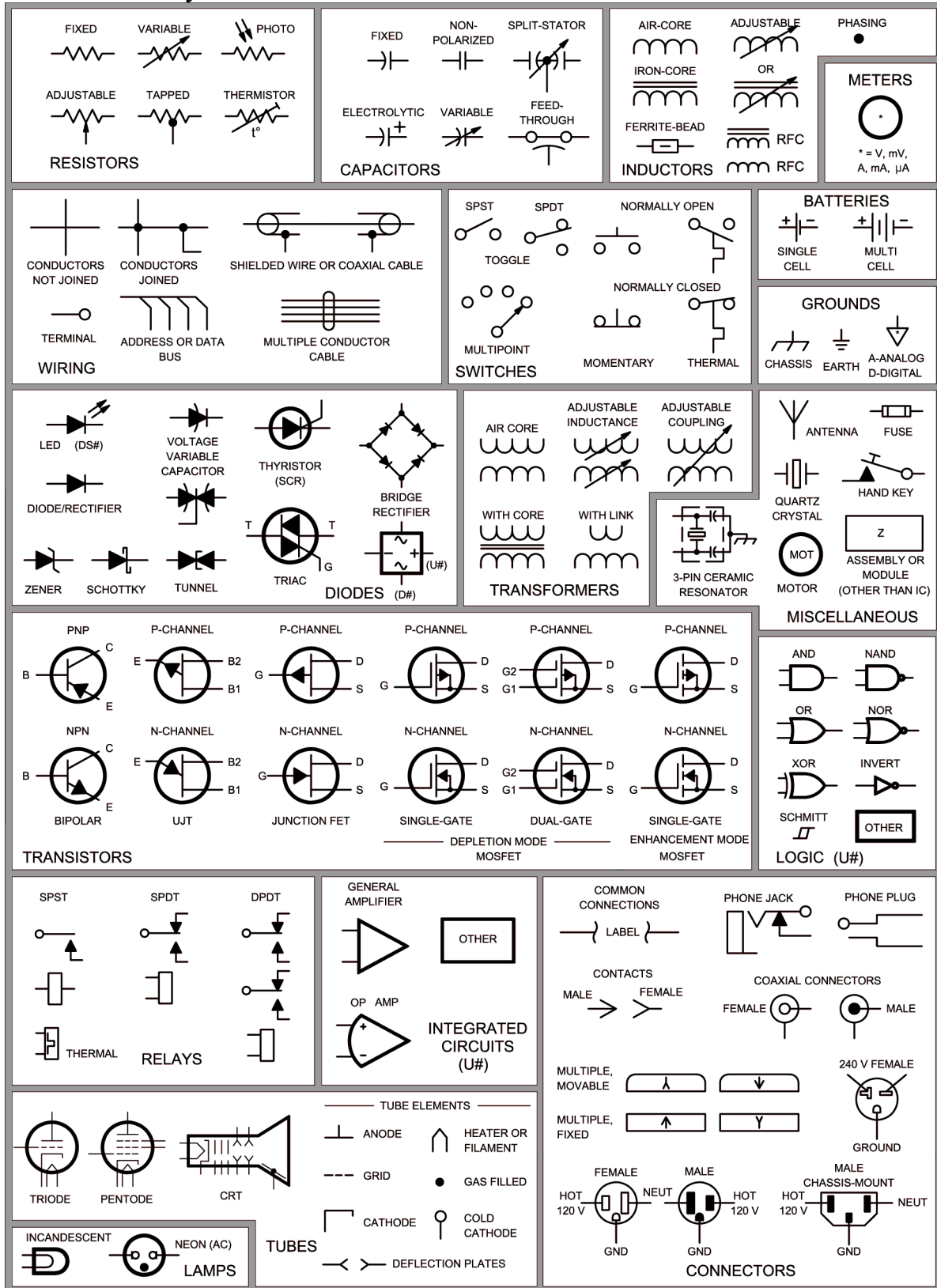
Wiring Diagram

Schematic diagrams show each electronic part and how they are connected. Schematic diagrams sometimes show voltages and signals associated with the device and are used to troubleshoot and repair electronic circuits. It is important to memorize each schematic symbol because you will be using them every day. Schematic symbols are the written language of technicians and engineers and without these symbols we could not understand how each unique electronic device functions.



Schematic Diagram

Schematic Symbols



PERFORMANCE SHEET

Get a partner and practice using schematic symbol flash cards. Keep practicing until you have 100 % of the symbols memorized. When symbols are memorized you may get the quiz from your instructor.

GRADING RUBRIC

	Instructed/Cannot 0 points	Familiarization 1 point	Satisfactory 2 points	Mastery 3 points
Safety	Student rarely follows industry standard safety rules	Student needs to be frequently reminded to follow industry standard safety rules	Follows all industry standard safety rules, but required one reminder.	Student always follows all industry standard safety rules
Task	Student is unable to complete task	Student requires frequent assistance to complete task, and/or is familiar with some parts of the task	Student requires very little assistance to complete task, or has only completed task once or twice, but completed it satisfactorily with little to no assistance	Student can perform task with no assistance and has completed the task many times with no errors.

Mastery = 6 points

Satisfactory = 4-5 points

Familiarization = 2-3 points

Instructed cannot perform = <2 points