

272-S01

BUCKS COUNTY TECHNICAL HIGH SCHOOL ELECTRONIC COMMUNICATIONS TECHNOLOGY

NAME: _____ START DATE: ____/____/____
COMPLETION DATE: ____/____/____

TASK: *S01 the TV Block Diagram*

PERFORMANCE OBJECTIVE: *Given a block diagram the student will identify each block and explain its operation with 75% accuracy.*

ENABLING OBJECTIVE: *Complete R01-R08*

TOOLS REQUIRED: *Instructor theory lesson*

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

ACADEMIC ANCHORS:

M11.A.1.1.2 Express numbers using scientific notation

M11.A.2.1.1 Solve problems operations with rational numbers using rates and percentages

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. View instructor theory lesson	_____
	3. View video or powerpoint lesson	_____
	4. Complete performance sheets	_____
	5. Get quiz from instructor	_____

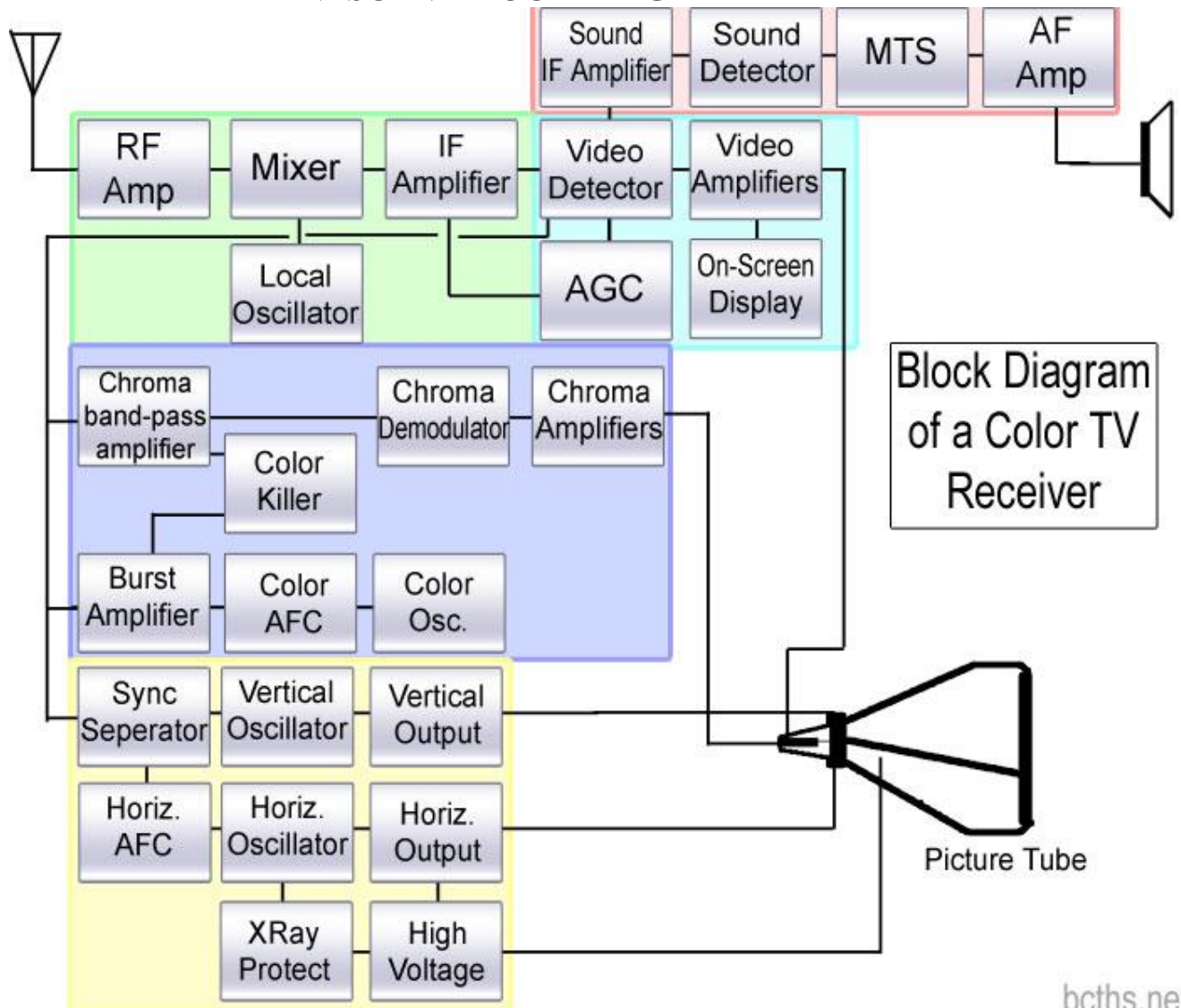
PERFORMANCE LEVEL:

MASTERY SATISFACTORY FAMILIARIZATION INSTRUCTED/CANNOT PERFORM

BUCKS COUNTY TECHNICAL SCHOOL – June 17, 2021

INSTRUCTOR'S SIGNATURE

INFORMATION SHEET – NTSC TV BLOCK DIAGRAM



bcths.net

PERFORMANCE SHEET

1. List the blocks in the NTSC block diagram that are also in the heterodyne type receiver.
2. Define resolution:
3. How many lines of resolution are transmitted in a standard NTSC broadcast?
4. How many lines of resolution are transmitted in a standard DTV broadcast?
5. How many lines of resolution are transmitted in a standard HDTV broadcast?
6. Define interlaced scanning:
7. Define progressive scanning:
8. What is sync?
9. List the TV Video I.F., Audio I.F., and Chroma I.F. frequencies.
10. List the chroma and audio sub-carrier frequencies.
11. What is chroma or color burst?
12. List all of the signals transmitted during an NTSC broadcast.

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