WEEK ENDING30/09/2022
SUBJECTPRE-TECHNICAL SKILLS
REFERENCESYLLABUS(CRDD,2007), PRE-TECH FOR JHS
FORM RASIC 8 WEEK 3

strength and ductility, and it is common in

many types of steel parts.

			FORMBASIC 8WEEK3							
DAY/DURATION	TOPIC/SUB- TOPIC/ASPECT	OBJECT K	TIVES/R.P.	TEACHER- LEARNER ACTIVITIES	T/L MATERIALS	CORE POINTS	EVALUATION AND REMARKS			
TUESDAY	Topic;	Objective; By the end of the		Introduction; Discuss the		B n	Exercise; 1. What is a			
27-09-2022	Metals		e Pupil will be	meaning of Medium Carbon		ALC: UL	Carbon steel			
1:20PM -	Sub-Topic	i.	Explain the	steel with the Pupils.		FERMIN	2. State and explain 4			
2:40PM 80min	Medium Carbon steel		meaning of a Medium Carbon Steel	Show pupils pictures of a Medium Carbon steel.		Steel is an alloy of metals that consists primarily of iron and contains 0.2 to 2.1 percent carbon. All	properties of a medium carbon steel.			
		ii.	Identify the physical properties of a Medium Carbon Steel.	Activities 1. Show a video play of Medium Carbon steels. 2. Discuss the		steel contains carbon, but the term "carbon steel" applies specifically to steel that contains carbon as the main alloying constituent. Medium carbon steel is carbon steel that contains between 0.30 and 0.60 percent carbon. It also has a manganese content between 0.6 and 1.65 percent. This type of steel provides a good balance between				

properties

of medium

carbon

steel.

RPK

basic 7.

Pupils were taught

lessons on Metals in

			Closure;			Carbon content (wt.%)	Properties	
					Medium- carbon steel	0.25 – 0.60	Low hardenability, medium strength, ductility and toughness	
					High- carbon steel	0.60 – 1.25	High hardness, strength, low ductility	
THURSDAY	Topic;	Objective;	Introduction		The medium-carbon steels have carbon content			Exercise;
	• •	By the end of the	Review Pupils		of 0.30% to 0	0.60%. They ເ	may contain	State the range of
	Metals	lesson the Pupil will be	knowledge on the				0.6% to 1.65%; this	Carbon content of
29-09-2022		able to;	previous lesson.		makes these types of steel susceptible to		•	medium carbon
20 00-2022	Sub-Topic				_	-	g. However, they can	steel.
8:05AM - 9:15AM	Carbon content of	state the range of	Activities		•	very successfully welded with some		
70min	medium carbon	carbon	1. Discuss the		precautions.			
	steel.	content of medium	range of			9.7		
		carbon steel.	carbon		Type of steel Carbon content (%) Dead mild steel <0.15 Mild steel 0.15–0.3 Medium carbon steel 0.3–0.8 High carbon steel 0.8–1.5 (> 1 is also called cast steel or tool or hard steel steel)			
		RPK	content of medium					
		Pupils have been	carbon					
		taught about the	steel with					
		properties of Medium	the Pupils.				called cast steel or tool	REMARKS
		carbon steel.	2. Pupils					
			brainstorm		8			
			to tell the					
			range of					

Manganese content in medium carbon steels. Closure;	
Assist Pupils to differentiate between Carbon steel and Mild steel.	