EaD Comprehensive Lesson Plans



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BASIC 7

WEEKLY LESSON PLAN – WEEK 6

Strand:	Tools, equipment and processes		Sub-Strand:		Cutting/Shaping			
	B7.3.2.1 Demonstrate understanding of cutting/shaping tools and equipment for p						ent for production	
Content Standard:								
Indicator (s)	and equipment used f	propriate skills in cuttir		Performance Indicator: Le examples cutting and shapin		•		
	B7.3.2.1.3: Demonstr maintain cutting and production							
Week Ending	16-02-2024							
Class	B.S.7	Class Size:			Duration	:		
Subject	Career Technology							
Reference	Career Technology Curriculum, Teachers Resource Pack, Learners Resource Pack							
Teaching / Learning Resources	grinder Competencies: • Manip					Creativity and Innovation Manipulative skills Operational skills.		
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAI	N				PHASE 3: REFLECTION	
MONDAY	Discuss with the Learners the meaning of "cutting and shaping". 1. Assist Learners to identify examples of cutting and shaping tools used for production. 2. Learners in small groups are to discuss about the features of cutting and shaping tools. 3. Discuss 5 importance of using cutting and						features of cutting	
	shaping tools.					Exercise;		
		emove ex earing du nape, size machine ece and c cal and o	aped and seess layer or ing machine and accuration. A reluting too ther arranges	the 2. Mention 5 examples of cutting too				
		Cutting tool is basically the cutter used in machining operation. Various machining operations utilize different cutters and thus various names are available						

for these cutters based on the application. A list of commonly used cutting tools is provided below.

- 4. **Single point turning tool**—cutter for turning operation performed in lathe
- 5. **Drill**—cutter for drilling operation performed on drilling machine or lathe or milling machine
- 6. **Milling cutter (or mill)**—cutter for milling operations performed on milling machine
- 7. **Fly cutter**—cutter for fly milling operation performed in milling machine
- 8. **Shaper**—cutter for shaping operation performed in shaping machine
- 9. **Planer**—cutter for planing operation performed in planing machine
- 10. **Boring bar**—cutter for boring operation performed in drilling or boring machine
- 11. **Reamer**—cutter for reaming operation performed in drilling machine
- 12. **Broach**—cutter for broaching operation performed in broaching machine
- 13. **Hob**—cutter for hobbing operation performed in hobbing machine
- 14. **Grinding wheel**—abrasive cutter for grinding operation performed in grinding machine.
- 15. **Food laboratory** Kitchen knives, cutters: pairing, chopping, bread, biscuit cutters

,cake tins, moulds, scoops for ice cream

16. **Sewing workshop/laboratory** e.g. Scissors, pinking shears, seam ripper and French

curves)

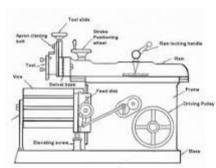
- 17. Woodwork Saws, chisels, spoke shave, rasp file
- 18. Building Bolster, brick hammer, mould box
- 19. Plastic Coping saw, junior hacksaw, files, drills
- 20. Metal/plastics Saws, files, chisels

The purpose of cutting tool (also called cutter) is to compress a particular layer of work material in order to shear it off. Therefore, cutter must have wedge shape with sharp edge for smoothly and efficiently removing material requiring minimum power. At the same time cutter material should be sufficiently hard so as to withstand intense rubbing occurred during machining

THURSDAY Through qu and answer review Lear

Through questions and answers, review Learners knowledge on the previous lesson.

- 1. Assist Learners to differentiate between cutting and shaping.
- 2. Discuss with Learners on the functions of different kinds of shaping tools.
- 3. Learners in small groups to practice using cutting and shaping tools in the classroom.
- 4. Learners brainstorm on how to care and maintain for cutting and shaping tools.



A shaping tool is used to cut in curves, different angles, and many other shapes. A disc is responsible for the tool rotation which results in the forward and backward movement. The cutting tool is used to give the shape to the hard surface of metal or wood by removing the excess material

Shaping Tools

- Soldering Iron. A handheld tool used to create strong electrical connections by melting soldering wire.
- Orbital Sanders.
- Belt Sander.
- Planer.
- Bench Grinder.
- Angle Grinder.
- Mini Lathe.
- CNC Router.

Caring for Cutting and shaping tools;

- 1. Keep your tools in a dry place.
- 2. Store tools in their original cases.
- 3. Use rust collector or silica gel pack.
- 4. Clean your tools properly.
- 5. Inspect tools frequently for wear and damages.
- 6. Maintain the batteries of tools

Learners practice using shaping tools.

Exercise;

- What are Shaping tools?
- 2. State 5 examples of shaping tools.

Name of Teacher: School: District: