

7

Learning Activity Sheet for TLE

Quarter 4

Lesson

4

Worksheet for TLE Grade 7
Quarter 4: Lesson 4 (Week 4)
SY 2024-2025

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LEARNING ACTIVITY SHEET

Learning Area:	TLE 7	Quarter:	4
Lesson No.:	4	Date:	
Lesson Title/ Topic:	Classification of Tools in Industrial Arts Services/Carpentry and Masonry Tools		
Name:		Grade & Section:	

I. Activity No. 1: Tool Task: Carpentry vs. Masonry Match-Up (20 minutes)**II. Objective(s):**

1. To reinforce understanding of carpentry and masonry tools by classifying them into the appropriate categories.
2. To encourage critical thinking and analytical skills in identifying the primary functions of each tool.

III. Materials Needed: Ballpen and Paper**IV. Instructions:** Review the carpentry and masonry tool list below. Classify each tool into the appropriate category: Carpentry or Masonry. Write the name of the tool next to the corresponding category. Provide a brief explanation for your classification decisions.

Hammer	Masonry Hammer	Hand Drills
Trowel	Brick Jointer	Masonry Saw
Hand Saw	Measuring Tape	Float
	Masonry Drill	

TOOL	CATEGORY (CARPENTRY, MASONRY)	FUNCTION
Hammer	Carpentry	This tool is used to break an object, drive a nail or spike into another, or mold the desired shape of the material.

V. Synthesis/Extended Practice/Differentiation:

1. What criteria were used to classify each tool as carpentry or masonry?

2. Did you encounter any tools that could be used in carpentry and masonry?

3. Were there any tools that you found challenging to classify? If so, which ones and why?

LEARNING ACTIVITY SHEET

Learning Area:	TLE 7	Quarter:	4
Lesson No.:	4	Date:	
Lesson Title/ Topic:	Classification of Tools in Industrial Arts Services/Construction Painting and Metal Works Tools		
Name:		Grade & Section:	

I. Activity No. 2: Tools Scenario Challenge (20 minutes)**II. Objective(s):**






1. To classify the appropriate use of construction painting and metal works tools.
2. To differentiate between scenarios where construction painting tools and metal works tools are required.
3. To foster critical thinking skills by analyzing various scenarios and selecting the most suitable tools based on the context.

III. Materials Needed: Ballpen and Paper**IV. Instructions:** Identify whether construction painting or metal works tools would be used in each situation. Write your answer in the space provided before each number.

- _____ 1. Sophia wants to repaint her bedroom walls a new color to freshen up the room.
- _____ 2. Mark needs to cut a piece of metal tubing to a specific length for his science project.
- _____ 3. The school maintenance team is repairing a damaged section of drywall in the hallway.
- _____ 4. Anne is building a wooden birdhouse for her backyard and needs to sand down the rough edges.
- _____ 5. The construction crew is installing metal support beams for a new building under construction.

V. Synthesis/Extended Practice/Differentiation

Below are pictures of tools. Identify and classify each as a construction painting or metal works tool.

	Name of Tools	Classification
		
		
		
		
		

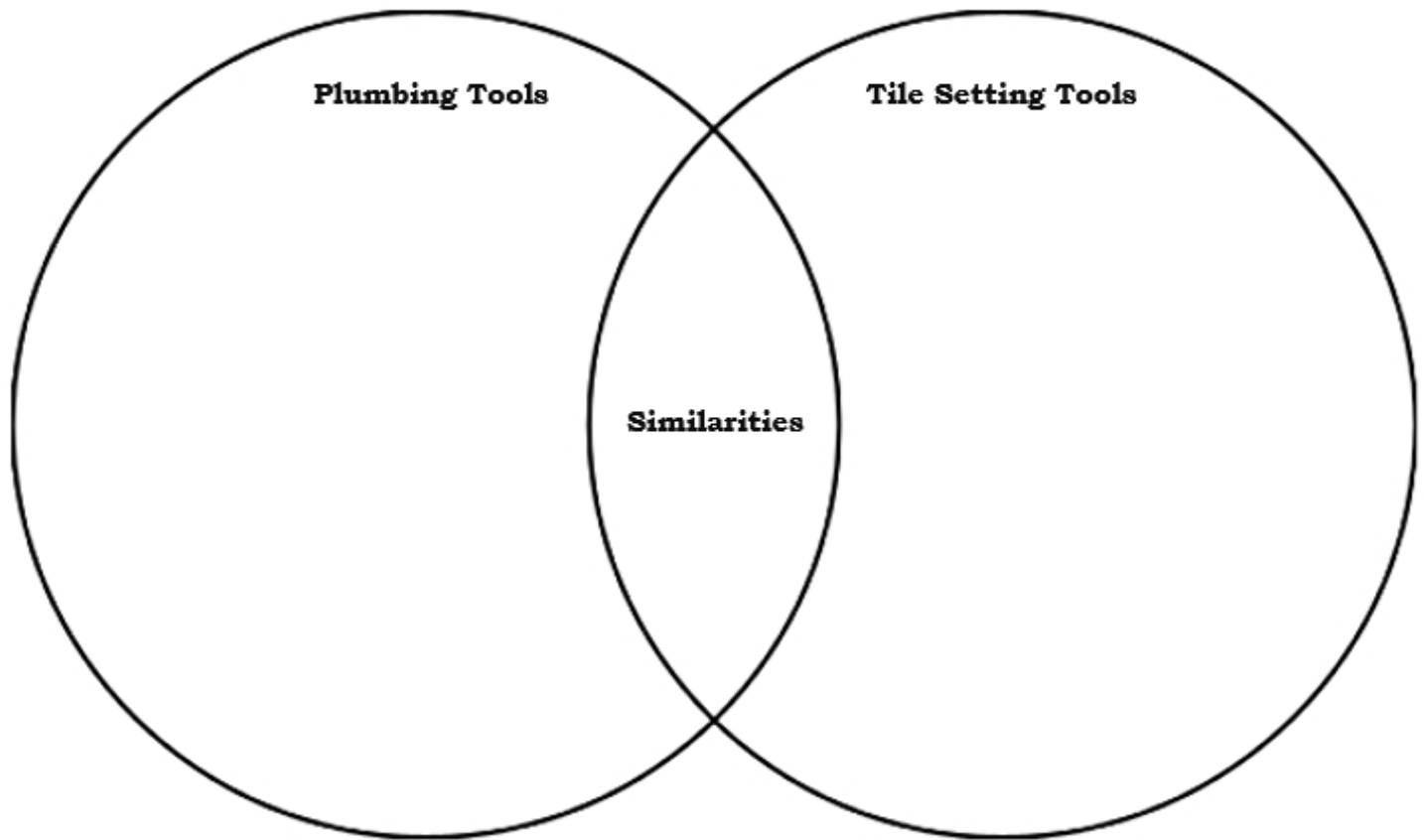
LEARNING ACTIVITY SHEET

Learning Area:	TLE 7	Quarter:	4
Lesson No.:	4	Date:	
Lesson Title/ Topic:	Classification of Tools in Industrial Arts Services/Plumbing and Tile Setting Tools		
Name:		Grade & Section:	

- I. Activity No. 3: Bathroom Blueprint: Plumbing and Tile Tools Expedition (20 minutes)**
- II. Objective(s):**
1. To recognize the tools and equipment required for plumbing installation and tile setting in a bathroom renovation or construction project.
 2. To identify and list the plumbing and tile-setting tools needed to install fixtures and tiles in their bathroom designs.
 3. Differentiate between plumbing and tile setting tools and identify similarities or commonalities.
- III. Materials Needed:** Pencil, Coloring Materials, and Cartolina
- IV. Instruction:** You will be divided into three groups. Design your dream bathroom layout. Identify and list all plumbing and tile setting tools needed to install fixtures and tiles in your designs.

V. Synthesis/Extended Practice/Differentiation:

Use a Venn diagram to illustrate the similarities and differences between plumbing and tile setting tools.



LEARNING ACTIVITY SHEET

Learning Area:	TLE 7	Quarter:	4
Lesson No.:	4	Date:	
Lesson Title/ Topic:	Classification of Tools in Industrial Arts Services/ Electrical Tools		
Name:		Grade & Section:	

I. Activity No. 4: Electrify Your Vocabulary: Electrical and Electronic Tools Crossword Puzzle (20 minutes)

II. Objective(s):

1. Recognize and identify different types of electrical tools through a fun and interactive crossword puzzle format.
2. Increase engagement and interest in the subject matter by presenting content in a puzzle format, catering to diverse learning preferences, and encouraging active participation.
3. Select appropriate tools for specific applications.

III. Materials Needed: Ballpen and Paper

IV. Instructions: Search for different words related to the topic discussed in this lesson. Connect the letters with zigzag lines.

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

V. Synthesis/Extended Practice/Differentiation:

Identify which type of electrical tools will be used in the following scenarios.

1. You're experiencing issues with a light switch in your kitchen that doesn't work consistently. You suspect there might be a problem with the wiring or the switch itself.



Source:

<https://www.thespruce.com/wall-switch-troubleshooting-and-repair-1824662>

2. You're troubleshooting an electrical outlet in your home that doesn't work. You suspect there might be an issue with the voltage or continuity.



Source:

<https://wnchomeinspector.com/electrical-problem/>

3. You're working on a home improvement project and need to install new light fixtures. Electrical wires run from the ceiling, but they have insulation covering the ends. You must expose a portion of the wire to connect it to the light fixture.



Source: <https://empire-s3-production.bobvila.com/articles/wp-content/uploads/2011/08/Bob-Vila-Slides-Horizontal-2022-09-20T223201.225.jpg>

4. You're setting up a new home entertainment system and must securely connect various audio and video cables.



Source:

<https://www.sparkfun.com/products/14093? gl=1>

5. You and your classmates are participating in an electronic workshop where you'll be building simple electronic circuits. Each group has been provided with a circuit diagram and the necessary components, including resistors, other electronic components, and a PCB (Printed Circuit Board). As you begin to assemble your circuit, you realize that the leads of the components aren't sticking securely to the copper pads on the PCB. What electronic tool can you use to attach the component properly to the PCB for a secure connection?



Source:

<https://www.ebay.com.au/itm/195848829864>

6. You and your classmates are working on a school project to create a simple electronic circuit that lights up an LED when a button is pressed. You have a breadboard, an LED, a resistor, a button, and jumper wires, but you need to figure out how to connect everything correctly. What tool can you temporarily assemble and test your circuit without soldering?



Source:

<https://www.amazon.com/Electronic-Components-Assortment-Electronics-Development/dp/B0BX8W48NH>

LEARNING ACTIVITY SHEET

Learning Area:	TLE 7	Quarter:	4
Lesson No.:	4	Date:	
Lesson Title/ Topic:	Classification of Tools in Industrial Arts Services/Automotive and Small Engine Tools		
Name:		Grade & Section:	

- I. Activity No. 5: Tool Matching Game**
- II. Objective(s):** To match each automotive tool name with its corresponding picture or illustration.
- III. Materials Needed:**
- Pictures or illustrations of common automotive tools (socket set, wrench set, screwdriver set, pliers set, etc.)
 - Printed worksheet with tool names for identification
 - Writing utensils (pencils or pens)
- IV. Instructions:** Match each tool name on their worksheet with the corresponding picture or illustration. Explain your choices and discuss the purpose of each tool.

LEARNING ACTIVITY SHEET

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Lesson Title/ Topic:	Classification of Tools in Industrial Arts Services/Automotive and Small Engine Tools		
Name:		Grade & Section:	

I. Activity No. 6: Build Your Own Simple Automotive Repair Kit**II. Objective(s):** Create a personalized basic automotive repair kit.**III. Materials Needed:** (Note: If actual tools are not available, you may use printed or mockup tools)

- Assorted automotive tools (wrenches, screwdrivers, pliers, sockets, etc.)
- Empty toolbox or container for each student
- List of essential automotive tools (optional)
- Safety goggles
- Gloves

IV. Instructions: You will be divided into pairs or small groups. Each group will have empty toolboxes or containers, various automotive tools, safety goggles, and gloves. You are tasked to build your automotive repair kit using the tools and materials provided. Consider the types of repairs to select tools for an essential repair kit. Each group will present their assembled kit to the class, and you will explain your choice of tools and justify why they are included. Discuss the advantages and disadvantages of various tool selections compared to other kits.