



## Task Title: Understanding Household Plumbing Pipes

### OALCF Cover Sheet – Learner Copy

**Learner Name:** \_\_\_\_\_

**Date Started:** \_\_\_\_\_

**Date Completed:** \_\_\_\_\_

**Successful Completion:** Yes ☐ No ☐

**Goal Path:** Employment ☐ Apprenticeship ☐

Secondary School ☐ Post Secondary ☐ Independence ☐

**Task Description:** The learner will read about pipes used in household plumbing and conduct internet searches to learn more.

#### Main Competency/Task Group/Level Indicator:

- Find and Use Information/Read continuous text/A1.2
- Use Digital Technology/D.2

#### Materials Required:

- Pen/pencil and paper
- Computer or digital device

## Learner Information

Plumbers need to understand the uses of various pipes when building or replacing existing plumbing fixtures. Read "Types of Household Plumbing Pipes".

## Types of Household Plumbing Pipes

Pipes are typically used either for drainage or for water supply.

Water Supply	Drainage
<ul style="list-style-type: none"><li>• Copper pipe</li><li>• PVC</li><li>• CPVC</li><li>• PEX</li><li>• Galvanized Pipe</li></ul>	<ul style="list-style-type: none"><li>• ABS</li><li>• PVC</li><li>• Cast Iron</li><li>• Galvanized Pipe</li><li>• Copper Pipe DWV</li></ul>

**ABS** - A hard walled black plastic drain pipe used extensively in North America.

**Cast Iron** - A very common drain pipe in older homes but it is no longer used in residential plumbing.

**Copper pipe** - Used for decades as the most common water supply pipe. Copper pipe and tubing comes in a variety of sizes and types.

**Copper Pipe DWV** - A hard walled copper drain, waste and vent pipe (DWV) that was commonly used in older homes. It is still commonly used in commercial and industrial construction but is too pricey for residential.

**CPVC** - Used as a hot/cold water supply pipe in many countries around the world because of the price but it lacks long term durability.

**Galvanized pipe (Drainage)** - Common in many older homes and prone to maintenance. Easily discernible by the silver to whitish color and threaded fittings.

**Galvanized pipe (Water Supply)** - May still be found in many homes but is seldom used anymore because of water discoloration, cost and difficult repairs.

**PEX** - Cross-linked polyethylene tubing. This has become the standard in new home construction. PEX comes in a variety of colors and is used for plumbing and heating purposes.

**PVC (Drainage)** - A hard walled white plastic drain pipe used throughout the world.

**PVC (Water Supply)** - Used as a cold-water supply pipe in many countries around the world because of the price; lacks long term durability.

## Work Sheet

**Task 1: List two types of pipes that are used for both water supply and drainage.**

Answer:

---

**Task 2: Which type of pipe is not used in residential because of the cost?**

Answer:

---

**Task 3: The following pipes are commonly referred to using their acronyms. Conduct internet searches to find the complete name of each pipe and write them below.**

Answer:

**ABS**

**PVC**

**CPVC**

**PEX**

---

**Task 4: Conduct an internet search to find the purpose of DWV (drain, waste and vent) in plumbing. List two reasons DWV is used.**

Answer:

---

Task Title: UnderstandingHouseholdPlumbingPipes\_A\_A1.2\_D.2

**Task 5: Conduct an internet search to learn more about the durability of PVC. List two reasons it is considered durable.**

Answer:

---