Welcome to the World of Plumbing!
This welcome pack is designed to introduce you to the basics of plumbing fundamentals and safety protocols. As a beginner, you will learn about the different types of plumbing systems, safety protocols, and tools and equipment used in the trade.

Table of Contents

- 1. Introduction to Plumbing Systems
- 2. Safety Protocols in Plumbing
- 3. Tools and Equipment Used in Plumbing
- 4. Water Supply and Drainage Principles
- 5. Plumbing System Design
- 6. <u>Safety Data Sheets and Hazardous Materials</u>
- 7. Plumbing Careers and Job Opportunities
- 8. Glossary of Plumbing Terms
- 9. Quiz Time!
- 10. Conclusion and Next Steps

ntroduction to Plumbing S	5ystems
	ork of pipes, fittings, and fixtures that distribute water and gas throughout a of a water supply system, a drainage system, and a vent system.
What is the primary function o	f a plumbing system?
What are the three main comp	ponents of a plumbing system?
Activity 1: Plumbing Syste	m Diagram
Oraw a simple diagram of a pl such as sinks and toilets.	lumbing system, including the water supply lines, drainage pipes, and fixtures
[Space for diagram]	

Safety Protocols	in Figure 1
	e essential in plumbing to prevent injuries and illnesses. Plumbers work with hazardous lead and asbestos, and are at risk of exposure to chemicals and biological agents.
What are some cor	nmon safety protocols in plumbing?
Why is it important	to wear personal protective equipment (PPE) in plumbing?
Activity 2: Sofoty	r Protocol Scenario
	Protocol Scendilo
magine you are a բ respond to it.	olumber working on a job site. Describe a potential safety hazard and how you would

Plumbers use a variety of tools and equipment to perform the include wrenches, pliers, pipe cutters, and drain snakes.	heir jobs. Some common tools and equipment
What is the purpose of a pipe cutter?	
What is the difference between a wrench and a plier?	
Activity 3: Tool Identification	
dentify and describe the different tools and equipment used function.	d in plumbing. Match the tool with its correct
Tool	Function

Pipe Cutter

Wrench

Plier

pressure to an area of i	supply and drainage are essential in plumbing. Water will flow from an area of high low pressure, and water will flow downhill.
What is the purpose of	a vent pipe?
What is the difference i	between a trap and a vent?
Activity 4: Plumbing	System Simulation
Simulate a plumbing sy hey work together.	stem using a diagram or model. Identify the different components and describe how
[Space for simulation	1]

	em design involves planning and designing a plumbing system for a building or structure lecting the correct materials, sizing the pipes, and ensuring that the system is safe and
What are some i	actors to consider when designing a plumbing system?
How do you ens	ure that a plumbing system is safe and efficient?
Activity 5: Plui	mbing System Design Challenge
Design a plumbi systems.	ng system for a small building or structure. Consider the water supply, drainage, and ver
[Space for des	ign]

	SDS) provide information on the safe handling and use of hazardous materials. Plumbers e potential risks and hazards associated with the materials they work with.
What is the purpose	of an SDS?
How do you handle	and dispose of hazardous materials?
Activity 6: SDS Re	view
	common plumbing material. Identify the potential risks and hazards associated with the pe how to handle and dispose of it safely.
[Space for review]	

Plumbing is a rewarding and ch of settings, including residentia	nallenging career with many job opportunities. Plumbers can work in a variet nal, commercial, and industrial.
What are some common plumb	oing careers and job opportunities?
What skills and qualifications a	re required to become a plumber?
Activity 7: Career Research	
Research a plumbing career or qualifications required, job resp	job opportunity. Write a short report on the career, including the skills and consibilities, and salary range.
[Space for report]	

Glossary of Plumbing Terms

The following are some common plumbing terms:

- Pipe: a cylindrical tube used to convey fluids
- Fitting: a component that connects two or more pipes together
- Fixture: a device that uses water, such as a sink or toilet
- PPE: personal protective equipment, such as gloves and safety glasses

Quiz Time!

Test your knowledge of plumbing fundamentals and safety protocols with this quiz.

- 1. What is the primary function of a plumbing system?
 - a. To supply water and gas
 - b. To remove waste and sewage
 - c. To provide ventilation
 - d. To regulate water pressure
- 2. What is the purpose of a vent pipe?
 - a. To provide ventilation
 - b. To remove waste and sewage
 - c. To supply water and gas
 - d. To regulate water pressure
- 3. What is the difference between a wrench and a plier?
 - a. A wrench is used for tightening and loosening, while a plier is used for gripping and bending
 - b. A wrench is used for gripping and bending, while a plier is used for tightening and loosening
 - c. A wrench is used for cutting and threading, while a plier is used for measuring and testing
 - d. A wrench is used for measuring and testing, while a plier is used for cutting and threading

ongratulations on completing this introduction to	olumbing fundamentals and safety protocols! You now
	f plumbing systems, safety protocols, and tools and
quipment used in the trade.	
that did you loarn from this introduction?	
hat did you learn from this introduction?	
hat topics would you like to learn more about?	
ext Steps:	
Continue to learn about plumbing fundamen	tals and safety protocols

