



# THE VIRGINIA ADULT LEARNING RESOURCE CENTER

Virginia Commonwealth University

## **Plumbing Lesson Two: A Plumber's Tools**

### **Student Handouts**

*Building Basics was paid for under an EL Civics grant from the U. S. Department of Education administered by the Virginia Department of Education. It was paid for under the Adult Education and Family Literacy Act of 1998; however, the opinions expressed herein do not necessarily represent the position or policy of the U. S. Department of Education, and no official endorsement by the U. S. Department of Education should be inferred. This document was designed and created by the Virginia Adult Learning Resource Center at Virginia Commonwealth University, 817 West Franklin Street, Suite 221, P.O. Box 842037, Richmond, VA 23284-2020. It may be reproduced for nonprofit, educational purposes only.*

## A Plumber's Tools: Tool Families

PLIERS				
WRENCHES				
PLUNGERS				
SAWS				
HAMMERS				

# A Plumber's Tools: Tool Families

PIPE CUTTERS				
TAPE MEASURES		 <p>SERIES 61</p>	 <p>SERIES 46</p>	 <p>SERIES 19</p>

## Activity #2 How Many Tools Do You Need?



NUMBER	NUMBER WORD OR EXPRESSION	NOUN	HOW IT WORKS
1	a	hammer	We use <b>“a”</b> in front of a singular (one) noun.
1	an	auger electric drill	We use <b>“an”</b> in front of nouns that begin with a <b>vowel sound</b> .
1	a pair of	work gloves pliers safety glasses	This is <b>one</b> object with two parts. We add <b>“s”</b> or <b>“es”</b> at the end of the word.
2 or 3	a few some	plungers	We add <b>“s”</b> or <b>“es”</b> to plural nouns.
3 or more	several a set of	pipe cutters drill bits wrenches	We add <b>“s”</b> or <b>“es”</b> to plural nouns.

### Let's Practice

Write the correct form of each word. First, look at the example.

Example: Give me **several** wrenches.

wrench

1. Please hand me **a set of** \_\_\_\_\_.

screwdriver

2. I need **a few** \_\_\_\_\_.

bolt

3. We need **a 6ft** \_\_\_\_\_ to clear this drain.

snake

4. I have **a pair of** \_\_\_\_\_ if you need them.

glasses

5. Can you give me **some** \_\_\_\_\_, please?

saw

### Activity #3

## Miguel's Toolbox



Miguel is going to fix a problem with the bathroom sink at his friend's house. Before he leaves, he needs to pack his toolbox. Miguel tells his daughter, Elena, which tools he needs. Elena is putting the tools in his toolbox.

Read Miguel and Elena's conversation and write the correct words on the lines after each picture.

**Elena:** What tools do you need, dad?

**Miguel:** I need  a plunger,  \_\_\_\_\_, and  \_\_\_\_\_  
\_\_\_\_\_ of safety glasses.

**Elena:** What else do you need?

**Miguel:** I need  \_\_\_\_\_ and  a \_\_\_\_\_.

**Elena:** Which wrench do you want?

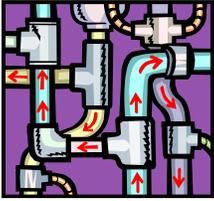
**Miguel:** Put in \_\_\_\_\_ adjustable wrench and  \_\_\_\_\_ locking wrench.

You can also throw in  a set of socket \_\_\_\_\_.

**Elena:** Anything else?

**Miguel:** Let's see. I will need  \_\_\_\_\_,  \_\_\_\_\_ tape  
\_\_\_\_\_,  \_\_\_\_\_ electric drill and  \_\_\_\_\_ of drill bits.

**Elena:** Okay, Dad. I hope that's all. Your toolbox is full.



### Activity #3: Plumbing Puzzle

## Handout A



	1	w	a	s	h	e	r					3							
4									6										
		5							7		8		9						10
		s																	
		a																	
11		w																	
								12			13				14				
				17															
15	16					18									19				
												22							
20								21											
																	23		

### Activity #3: Plumbing Puzzle

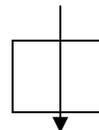
## Handout A



Words that you write **ACROSS**



**DOWN**



1. You use this appliance to wash your clothes.
3. The water in your sink goes down the \_\_\_\_\_.
5. A long tool that goes down a pipe to clean it.
7. A word that means "to put in a new appliance."
11. \_\_\_\_\_ water pressure means very little water.
13. Plumbers use this tool to hold or turn pipes.
15. You use this tool to turn screws.

19. You need a \_\_\_\_\_ measure to find out the length of a pipe.



20. \_\_\_\_\_ pliers hold screws and bolts tightly.
21. A \_\_\_\_\_ toilet has moving water all the time.

23. A bath \_\_\_\_\_ is very heavy.

2. A hot water \_\_\_\_\_ heats the water in a building.
4. Two commodes is the same as two \_\_\_\_\_.
5. You cut pipes with a hack \_\_\_\_\_.

6. a



8. a



9. Another word for a plumber's snake is an \_\_\_\_\_.

10. This man is using a



- 12.



14. You can \_\_\_\_\_ pipe with a pipe cutter.

16. When water does not go down a drain, the drain has a \_\_\_\_\_.

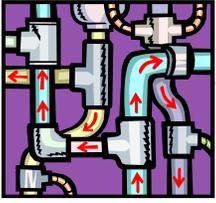


17. This pipe has a

18. a



22. A plumber can \_\_\_\_\_ a pipe with a crack in it.



### Activity #3: Plumbing Puzzle

## Handout B



											3						
											p						
	1																
	d																
					2											6	
					t											c	
									5								
									p								
	4																
	p																
7							10					8					
a							b					s					
9									11				12				
l					n				u				g				
					13												
					h												
					14												
					m					r							

### Activity #3: Plumbing Puzzle

## Handout B

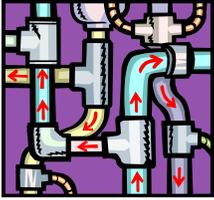


#### DOWN

#### ACROSS

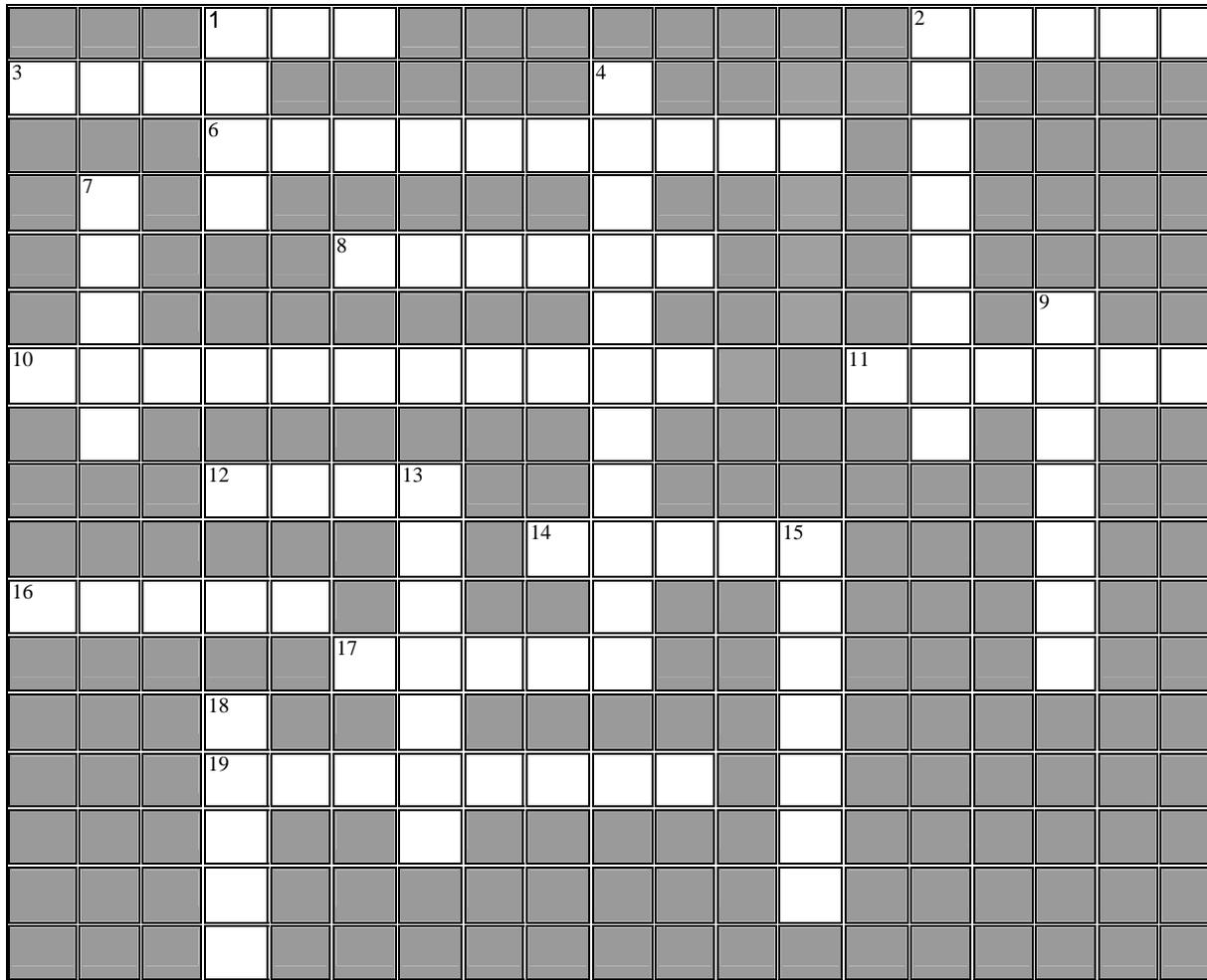
1. A faucet will \_\_\_\_\_ when it is not working correctly.
2. If a pipe is loose, you need to \_\_\_\_\_ it.
3. You can use \_\_\_\_\_ to grip a bolt, nut, or screw.
5. This pipe doesn't fit. It's too long. Do you have a \_\_\_\_\_ \_\_\_\_\_?
6. Another word for a *break* in a pipe is a \_\_\_\_\_.
9. When water runs down or sprays from a pipe, the pipe has a \_\_\_\_\_.
10. If your pipes freeze when it is very cold, they can \_\_\_\_\_.
12. Another word for *grab* or *hold* is \_\_\_\_\_.

4. We use this to force a blocked drain or pipe to open.
5. If your shower sprays just a little water, the problem could be low water \_\_\_\_\_.
7. The type of wrench that fits different sizes of nuts, bolts or fittings with flat sides.
8. A plumber puts a \_\_\_\_\_ down a pipe to clean out a block.
9. To remove a nut or bolt, you \_\_\_\_\_ it.
11. Another word for *unblock* is \_\_\_\_\_.
13. To cut pipes, you can use a \_\_\_\_\_ saw.
14. To learn the length of a pipe, you use a tape \_\_\_\_\_.



### Activity #3: Plumbing Puzzle

## Handout C



ACROSS

DOWN

1. When very little water comes out of a fixture, the water pressure might be \_\_\_\_\_.
2. The place where waste water goes is a \_\_\_\_\_.
3. A \_\_\_\_\_ wrench is used to grip or turn pipes.
6. The type of wrench that fits many sizes of nuts and bolts with flat sides.
8. The fixture on a sink where the water flows from.
10. This tool tightens and loosens screws.
11. Another word for fix is \_\_\_\_\_.
12. Another word that means "to hold something tightly."
14. Another word for snake is \_\_\_\_\_.
16. The place where two pipes meet is the \_\_\_\_\_.
17. Plumbers put this down drains or pipes to remove clogs.
19. To put the parts of something together is to \_\_\_\_\_.

1. Water coming out of a pipe or joint is a \_\_\_\_\_.
2. This is an appliance that chops up food waste into very small pieces
4. This is used to find out the length of a pipe.
7. Another word for a clog is a \_\_\_\_\_.
9. This is used to cut pipes.
13. This is used over drains to force clogs through the pipes.
15. This is a problem with a toilet. Water continues to flow from the tank to the bowl.
18. You turn this to close and open a drain or pipe.

## Essential Tools for Plumbing Checklist

### Handout A

	TOOLS	USE
1.	a set of screwdrivers, Phillips and flat-bladed	to assemble fixtures, turn screws
2.	a p__pe w__e__ch	to grip or turn pipes or fittings
3.	a h__c__ saw	to cut pipes
4.	a ____nak__	to clean out a blocked pipe
5.	t__p__ m__as__r__	to find out the length of a pipe
6.	a pipe __u__t__r	to cut pipes
7.	a p__u__g__r	to remove a clog from a drain
8.	an a__just__b__le wrench	to tighten or loosen screws, bolts, and pipes with flat sides
9.	lo__k__n__ pli__rs	to grip or hold screws, bolts, or fittings
10.	rib-jo__n__ __l__er__	to grip or turn pipes, nuts and fittings

## Essential Tools for Plumbing Checklist

### Handout B



TOOLS	USE
1. a set of screwdrivers, Phillips and flat-bladed	to assemble fixtures, turn screws
2. a pipe _____ch	to grip or turn pipes or fittings
3. a _____ saw	to cut pipes
4. a snake	to clean out a blocked pipe
5. t_____ m_____	to find out the length of a pipe
6. a pipe cutter	to _____
7. a plunger	to remove a clog from a d_____
8. an _____ wrench	to tighten or loosen screws, bolts, and pipes with flat sides
9. locking pliers	to grip or hold s____s, b____s or fittings
10. rib-_____	to grip or turn pipes, nuts and fittings

## Essential Tools for Plumbing Checklist

### Handout C



TOOLS	USE
1. a set of screwdrivers Phillips and flat-bladed	to assemble fixtures, turn screws
2. a _____ w_____	to grip or turn pipes or fittings
3. a hack _____	to _____ pipes
4. a snake	to clean out a bl_____ed pipe
5. a t_____ _____	to find out the length of a pipe
6. a _____ _____	to cut pipes
7. a p_____r	to remove a _____ from a drain
8. a__ a_____ wrench	to tighten or l_____ nuts, bolts and fittings with flat sides
9. l_____ p_____	to grip or hold screws, bolts or fittings
10. r____-j_____ p_____	to _____ or turn pipes, nuts or fittings