

Plumbing





This workbook can help you but you still need to read the merit badge pamphlet.

This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor. You still must satisfy your counselor that you can demonstrate each skill and have learned the information. You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show",

"tell", "explain", "demonstrate", "identify", etc, that is what you must do.

Merit Badge Counselors may not require the use of this or any similar workbooks.

No one may add or subtract from the official requirements found in Scouts BSA Requirements (Pub. 33216 – SKU 653801).

The requirements were last issued or revised in 2017 • This workbook was updated in June 2020.

Scout's Name:____ Counselor's Name: Phone No.: Email: http://www.USScouts.Org • http://www.MeritBadge.Org Please submit errors, omissions, comments or suggestions about this workbook to: Workbooks@USScouts.Org Comments or suggestions for changes to the requirements for the merit badge should be sent to: Merit.Badge@Scouting.Org 1. Do the following: a Describe how a properly working plumbing system protects your family's health and safety. List five important local health regulations related to plumbing and tell how they protect health and safety. 1. 2.

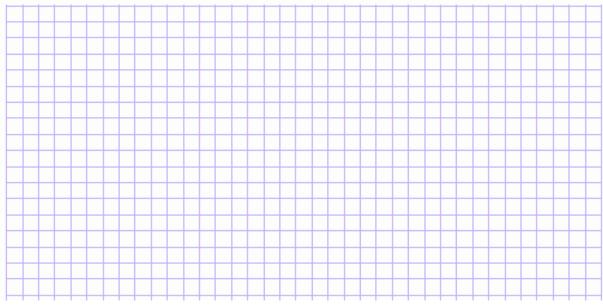
Workbook © Copyright 2020 - U.S. Scouting Service Project, Inc. - All Rights Reserved Requirements © Copyright, Boy Scouts of America (Used with permission.)

This workbook may be reproduced and used locally by Scouts and Scouters for purposes consistent with the programs of the Boy Scouts of America (BSA), the World Organization of the Scout Movement (WOSM) or other Scouting and Guiding Organizations.

However it may NOT be used or reproduced for electronic redistribution or for commercial or other non-Scouting purposes without the express permission of the U. S. Scouting Service Project, Inc. (USSSP).

Plumbing			Scout's Name:
3	3.		
4	4.		
	_		
	5.		
С	ا مور	scribe the safety precautions	s you must take when making home plumbing repairs.
		sonibo tilo caloty procautioni	b you must take whom making nome plantsing repairs.

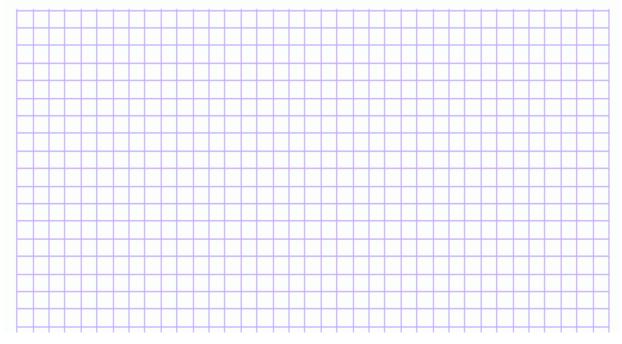
- 2. Do the following:
 - a Make a drawing and explain how a home hot- and cold-water supply system works.



Tell how you would make it safe from freezing.

•	•		

b Make a drawing and explain the drainage system of the plumbing in a house.



Plumbing		Scout's Name:
·	Explain the drainage	ge system of the plumbing in a house
_		
L	Show and explain	the use of drains and vents.
3. Show	how to use five impor	tant plumber's tools.
□ 1.		
□ 2.		
☐ 3. _		
☐ 4. <u></u>		
☐ 5. <u></u>		
4. Identii	fy and describe the us	e of each of the following: washer, retaining nut, plunger (rubber force cup), solder, flux, , plug, union, trap, drainpipe, and water meter.
Wash		prag, amon, trap, arampipo, and water moter.

Plumbing	Scout's Name:	
Retaining nut:		
Plunger (rubber force cup):		
Solder:		
Flux:		
Elbow:		
Tee:		
Nipple:		

Plumbing	Scout's Name:
Coupling:	
Plug:	
Union:	
_	
Trap:	
Desiration	
Drainpipe:	
Water meter:	
water meter.	

5.

Nar	ne the kinds of pipe that	are used most often in a plumbing system. Explain why these pipes are used.
1.		
2.		
2		
3.		
4.		
5.		
Unc stra	ight pieces, and one cou	nowledgeable adult, solder three copper tube connections using a gas torch. Include one tee, tw
Do :	the following:	n a faugat
	a. Replace a washer ib. Clean out a sink or	

When working on merit badges, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088). Important excerpts from that publication can be downloaded from http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf.

You can download a complete copy of the Guide to Advancement from http://www.scouting.org/filestore/pdf/33088.pdf.

☐ 6.☐ 7.

8.