

Fire Safety

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33215. Merit Badge Workbooks and much more are below: <u>Online Resources</u>. Workbook developer: <u>craig@craiglincoln.com</u>. Requirements revised: 2005, Workbook updated: April 2008.

Scout's Name:		Unit		
Counselor's Name: SM G	Breg Holz Troop 194	Counselor's Ph #:	<u>414-365-1285</u>	
1. Do the following:				
(a) Demonstrate the tech	nique of stop, drop, roll, and cool.			
Explain how burn injuries	s can be prevented			
(b) List the most frequen	t causes of burn injuries			
2. Explain the chemistry	and physics of fire.			
Name the parts of	1)	2)		
the fire tetrahedron.	3)	4)		
Explain why vapors are i	mportant to the burning process.			
Name the products of co	mbustion.			
Give an example of how	fire grows and what happens			
3. Name the most freque	nt causes of fire in the home and give	examples of ways it ca	n be prevented.	

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4. Do the following:

(a) Explain the role of human behavior in the arson problem in this country.

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(b) List the actions that cause seasonal fires and explain how these fires can be prevented.

5. List the common circumstances that cause holiday-related fires and explain how these fires can be prevented.

6. Conduct a home safety survey with the help of an adult. (<u>Sample Home Safety Checklist</u>) Then do the following:
(a) Draw a home fire escape plan,



create a home fire-drill schedule, and conduct a home fire drill.

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(b) Test a smoke alarm and demonstrate regular maintenance of a smoke alarm
(c) Explain what to do when you smell gas
and when you smell smoke
(d) Explain how you would report a fire alarm
(e) Explain what fire safety equipment can be found in public buildings
(1) Explain who should use fire extinguishers
and when these devices can be used
(g) Explain how to extinguish a grease pan fire
(h) Explain what fire safety precautions you should take when you are in a public building
7. Do the following:
(a) Demonstrate lighting a match safely
(b) Demonstrate the safe way to start a charcoal fire
(c) Demonstrate the safe way to melt wax
8. Explain the difference between combustible and noncombustible liquids
and between combustible and noncombustible fabrics
9. Do the following:
(a) Demonstrate the safe way to fuel a lawn mower
(b) Demonstrate the safety factors, such as proper ventilation, for auxiliary heating devices and the proper way to fuel thos devices
10. Do the following:
(a) Explain the cost of outdoor and wildland fires

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and how to prevent them		
(b) Demonstrate setting up and p	utting out a cooking fire.	
(c) Demonstrate using a camp sto	ove and lantern	
(d) Explain how to set up a campa	site safe from fire	
11. Visit a fire station. Identify th	e types of fire trucks.	
Find out about the fire prevention	activities in your community	
12 Choose a fire safety related ca	areer that interests you	
-	-	
and responsibilities of a person in	n that position	
Tall why this position interacts y	•••	
Tell why this position interests y		
	net resource with caution and only with you	
Boy Scouts of America: ► <u>scouting</u>		e-Appropriate Guidelines ► Safe Swim Defense
► <u>Scout</u> ► <u>Tenderfoc</u>		■ Rank Videos ► Safety Afloat
ExpertVillage First Aid Videos		erit Badge Books: <u>www.scoutstuff.org</u> 2 <u>CPR Basics</u> <u>Venomous Snake Bite</u>
Federal Emergency Management A		Administration: http://usfa.fema.gov

Federal Emergency Management Agency: <u>http://www.fema.gov</u> Home Safety Council : <u>http://www.homesafetycouncil.org/</u> National Fire Protection Association : <u>http://www.nfpa.org/</u> Underwriters Laboratories, Inc.: <u>http://www.ul.com/</u>

Residential Fire Safety Institute: <u>http://firesafehome.org</u> U.S. Consumer Product Safety Commission: <u>http://cpsc.gov</u>

National Ag Safety Database: http://www.cdc.gov/nasd/

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Sample Home Safety Checklist

Check safety steps that being taking in your home. Write N/A if the item is not applicable. Items left blank may present a safety hazard. This list provides some sample safety steps you might take. See your Safety Merit Badge pamphlet and counselor for more information. Ask your parent or guardian before making any changes.

Stairways, Halls, and Outdoor Steps

- ____ Stairways with three or more steps have a strong handrail.
- ____ Stairs/halls are kept free from boxes, toys, brooms, tools, etc.
- ____ Gates at top and bottom of stairs prevent children from falling.
- ____ The head and foot of stairs have no small or loose rugs.
- ____ Stair carpeting or covering is fastened securely.
- ____ Stairways & halls have good lighting, controllable at each end.

<u>Kitchen</u>

- ____ Matches are kept where children cannot get them.
- ____ Knives & sharp instruments are kept in knife drawers or holder.
- ____ Can openers don't leave sharp edges on cans.
- ____ Disinfectants & cleaning products are out of reach of children.
- ____ Pan handles are turned away from stove edges.
- ____ Spilled grease, water, or bits of food are wiped up immediately.
- ____ Pot holders are within easy reach.
- ____ A fire extinguisher is mounted near the stove.

Bathroom

- ____ Tub and shower are equipped with strong handholds.
- ____ Tub floor has non-slip surface.
- ____ Poisons are marked, sealed shut, and out of reach of children.
- _____ Medicines are out of reach of children in childproof containers.
- ____ No one takes medicine in the dark.

Attic and Basement

- ____ Ladder is strong, solid, and sturdily constructed.
- ____ Stairway is sturdy and well lighted.
- ____ Children keep skates and play gear in a specific place.
- ____ Walls and beams are free from protruding nails.
- ____ Fuses or circuit breakers are the proper size.
- ____ Rubbish & flammable materials are in covered metal cans.
- ____ Wastepaper is kept away from furnace and stairs.

Living Room and Dining Room

- ____ Furniture is placed to allow easy passage in an emergency.
- ____ Before bedtime, furniture placement is checked for orderliness.
- ____ Furniture and woodwork solid, in good repair, and free from.
- ____ Fireplace screen fits snugly.
- ____ Rugs are fastened or laid on non-slip pads.

- ____ Rugs are kept from curling at their edges.
- ____ Wax on floors is thoroughly buffed.
- ____ Fire in fireplace is extinguished at bedtime.
- ____ Candles are in stable holders and fully extinguished after use.

Bedroom

- ____ Smoke alarm has fresh battery or electrical connection & is tested regularly.
- Carbon monoxide detector has fresh battery or electrical connection and is tested regularly.
- ____ Furniture placement for clear passage between bed and door.
- ____ Light switch or lamp is within easy reach from bed.
- ____A night-light illuminates bedroom or hall.
- ____ Bureau and dresser drawers are closed when not in use.
- Bar across bunk beds helps prevent falls.
- ____ Children are taught not to lean against windows or screens.
- ____ Sturdily screen low windows to prevent children from falling.
- ____ Smoking in bed is prohibited.
- ____ Gas and electric heating devices are turned off at bedtime.

Nursery

- ____Bars on cribs are closely spaced.
- ____ Crib is approved by Consumer Products or similar.
- ____ Crib is free from sharp edges or corners.
- ____ Sleeping garments and covers keep baby warm without danger of smothering.
- ____ Pillows are kept out of bassinet or crib.
- ____ No thin, plastic material is in or near the crib.
- ____ Children are taught not to give marbles, etc. to younger children.
- ____ Toys are sturdy & have no sharp edges.
- ____ Nontoxic paint is used on baby furniture and toys.
- ____ All houseplants are nonpoisonous.

Sample Home Safety Checklist (page 2)

Stoves, Furnaces, and Heaters

- ____ Stoves are away from curtains.
- ____ Stoves & furnaces are inspected & cleaned annually.
- ____ Gas burners are properly adjusted and free from leaks.
- ____ Gas water and space heaters are equipped with vents or flues.
- ____ Water heater or boiler has a safety valve & is checked yearly.
- ____ Flames of gas burners are protected from drafts.
- ____ Insulating shield protects woodwork within 18" of furnace, etc.
- ____ Keep flammable materials away from stoves, furnaces, etc.
- ____ A wrench is stored near the shut-off valve of outside gas line.

Porch, Yard, and Garage

- ____ Railings and banisters are sound and inspected periodically.
- ____ Steps and walks are kept free from ice and snow.
- ____ Yard/play space are free from holes, stones, glass, etc.
- ____ Tools and dangerous articles are out of reach of children.
- ____ Dangerous products & chemicals are kept in original containers in locked storage areas.
- ____ Wires and low fences are brightly painted or clearly marked.
- ____ Wells, cisterns, and pits are kept securely covered.
- ____ Disposable materials are not burned outside.
- ____ An area is marked off in the garage for bicycles, wagons, etc.
- ____ Lawn mower is equipped with proper safeguards.

Workshop

- ____ Good ventilation exists, especially when sanding.
- ____ Safety goggles and/or face mask are available, with eyewash.
- ____ Baking soda is kept handy to neutralize acid burns.
- ____ All electrical tools are either three-wire or double-insulated.
- ____ Work area is well lit & free of clutter, scraps, rags.
- ____ All tools have a place & are in their place.
- ____ Guards are in place on all power tools.
- ____ A push stick is available for use with power saws.

Electrical Devices and Fixtures

- Electrical fixtures and appliances are located & used beyond arm's length of the sink, stove, tub, shower, or other grounded metal unless outlet is protected by a ground-fault interrupter.
- ____ Do not touch electrical fixtures or appliances with wet hands.
- ____ Disconnect seldom-used appliances when not in use.
- ____ All pull-type sockets have an insulating link.

- ____ Household appliances are disconnected before repairs.
- ____ Unused, open, screw-type sockets are plugged closed.
- ____ Frayed or worn electric cords are promptly replaced.
- ____ Long trailing cords are not in evidence.
- ____ Cords are kept out from under rugs, doors, and furniture.
- ____ UA-approved extension cords are the proper size.
- ____ Children are taught never to touch electric sockets or fixtures.
- ____ Fuses are adequate for the load and are not bypassed.
- ____ Circuit breakers are not overloaded.

<u>General</u>

- _____ At least one smoke detector in each bedroom & garage.
- ____ Everything has a place and is in its place.
- ____ Stepladders are in good repair and stored out of the way.
- ____ Window screens and storm windows are securely fastened.
- ____ Guns are stored unloaded and in locked cases.
- ____ Guns and ammunition are stored separately.
- ____ Children are permitted to use only blunt-end scissors.
- ____ Housework clothing has no drooping sleeves, sashes, or frills.
- ____ Shoes worn for housework have low heels.
- ____ All shoes are in good repair.
- ____ Kerosene, gasoline, paint thinners, and other volatile materials are stored outside in special, clearly marked metal containers.
- Oil mops, dust rags, painting equipment, and other oily materials are stored outside in open metal containers.
- ____ Everyone turns on a light before entering a dark room.
- ____ Matches are extinguished before they're thrown away.
- ____ Children are never permitted to play with matches.
- ____ Fire extinguishers are readily available.

For Emergency

- ____ Know how to get emergency help (911, poison control, etc.).
- Be able to find water, gas, & electric shutoffs. Check annually.
- ____ First aid kit approved by your doctor/American Red Cross.
- ____ Know basic first aid procedures.
- ____ Have a fire escape plan from your home.
- ____ Emergency water supply.
- ____ Handheld flashlights readily available.
- In earthquake-prone areas, make sure that the water heater and bookcases are bolted to the walls.