



Scoutmaster Bucky

FIRE SAFETY

Merit Badge Workbook

REQUIREMENT 1B: LIST THE MOST FREQUENT CAUSES OF BURN INJURIES.

Notes:

REQUIREMENT 2: EXPLAIN THE CHEMISTRY AND PHYSICS OF FIRE.

Notes:

REQUIREMENT 2: NAME THE PARTS OF THE FIRE TETRAHEDRON

Part 1

Part 2

Part 3

Part 4

REQUIREMENT 2: EXPLAIN WHY VAPORS ARE IMPORTANT TO THE BURNING PROCESS.

Notes:



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REQUIREMENT 2: NAME THE PRODUCTS OF COMBUSTION.

Notes:

REQUIREMENT 2: GIVE AN EXAMPLE OF HOW FIRE GROWS AND WHAT HAPPENS.

Notes:

REQUIREMENT 3: NAME THE MOST FREQUENT CAUSES OF FIRE IN THE HOME AND GIVE EXAMPLES OF WAYS THEY CAN BE PREVENTED.

Cause #1 _____

Prevention Methods:

Cause #2 _____

Prevention Methods:



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Cause #3 _____

Prevention Methods:

Cause #4 _____

Prevention Methods:

Cause #5 _____

Prevention Methods:

Cause #6 _____

Prevention Methods:

Cause #7 _____

Prevention Methods:



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REQUIREMENT 3: INCLUDE A DISCUSSION ABOUT FIRES CAUSED BY SMOKING IN THE HOME, COOKING, CANDLES, FIREPLACES, AND ELECTRICAL APPLIANCES.

Smoking in the Home _____

Prevention Methods:

Cooking _____

Prevention Methods:

Candles _____

Prevention Methods:

Fireplaces _____

Prevention Methods:

Electrical Appliances _____

Prevention Methods:



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REQUIREMENT 4: DO THE FOLLOWING:

REQUIREMENT 4A: EXPLAIN THE ROLE OF HUMAN BEHAVIOR IN THE ARSON PROBLEM IN THIS COUNTRY.

Notes:

REQUIREMENT 4B: LIST THE ACTIONS THAT CAUSE SEASONAL FIRES AND EXPLAIN HOW THESE FIRES CAN BE PREVENTED.

Cause #1 _____

Prevention Methods:

Cause #2 _____

Prevention Methods:



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REQUIREMENT 5: LIST COMMON CIRCUMSTANCES THAT CAUSE HOLIDAY-RELATED FIRES AND EXPLAIN HOW THESE FIRES CAN BE PREVENTED.

Cause #1 _____

Prevention Methods:

Cause #2 _____

Prevention Methods:

Cause #3 _____

Prevention Methods:

Cause #4 _____

Prevention Methods:

Cause #5 _____

Prevention Methods:



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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.

Kitchen

- ___ 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.

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.

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.

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.

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, and 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.

General

- ___ 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, 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.



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CONDUCT A HOME SAFETY SURVEY WITH THE HELP ON AN ADULT. THEN DO THE FOLLOWING:

_____	_____
Adult's Name	Phone
_____	_____
Adult's Signature	Date
	<input type="checkbox"/> Completed Home Safety Survey

REQUIREMENT 6A: DRAW A HOME FIRE-ESCAPE PLAN, CREATE A HOME FIRE-DRILL SCHEDULE, AND CONDUCT A HOME FIRE DRILL.

_____	_____
Adult's Name	Phone
_____	_____
Adult's Signature	Date
	<input type="checkbox"/> Completed Requirement 6A



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Notes:

REQUIREMENT 6C: EXPLAIN WHAT TO DO WHEN YOU SMELL GAS AND WHEN YOU SMELL SMOKE.

Notes:



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REQUIREMENT 6D: EXPLAIN HOW YOU WOULD REPORT A FIRE ALARM.

Notes:

REQUIREMENT 6E: EXPLAIN WHAT FIRE SAFETY EQUIPMENT CAN BE FOUND IN PUBLIC BUILDINGS.

Notes:



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REQUIREMENT 6F: EXPLAIN WHO SHOULD USE FIRE EXTINGUISHERS AND WHEN THESE DEVICES CAN BE USED.

Notes:

REQUIREMENT 6G: EXPLAIN HOW TO EXTINGUISH A GREASE PAN FIRE.

Notes:



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REQUIREMENT 6H: EXPLAIN WHAT FIRE SAFETY PRECAUTIONS YOU SHOULD TAKE WHEN YOU ARE IN A PUBLIC BUILDING.

Notes:

REQUIREMENT 7: DO THE FOLLOWING:

REQUIREMENT 7A: DEMONSTRATE LIGHTING A MATCH SAFELY.

This is a skill based requirement and does not require any workbook entry.
You will need to be able to demonstrate this requirement to your counselor.

REQUIREMENT 7B: DEMONSTRATE THE SAFE WAY TO START A CHARCOAL FIRE.

This is a skill based requirement and does not require any workbook entry.
You will need to be able to demonstrate this requirement to your counselor.

REQUIREMENT 7C: DEMONSTRATE THE SAFE WAY TO MELT WAX.

This is a skill based requirement and does not require any workbook entry.
You will need to be able to demonstrate this requirement to your counselor.



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REQUIREMENT 8: EXPLAIN THE DIFFERENCE BETWEEN COMBUSTIBLE AND NONCOMBUSTIBLE LIQUIDS AND BETWEEN COMBUSTIBLE AND NONCOMBUSTIBLE FABRICS.

Notes:



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REQUIREMENT 9: DO THE FOLLOWING:

REQUIREMENT 9A: DEMONSTRATE THE SAFE WAY TO FUEL A LAWNMOWER.

This is a skill based requirement and does not require any workbook entry.
You will need to be able to demonstrate this requirement to your counselor.

REQUIREMENT 9B: DEMONSTRATE THE SAFETY FACTORS, SUCH AS PROPER VENTILATION, FOR AUXILIARY HEATING DEVICES AND THE PROPER WAY TO FUEL THOSE DEVICES.

This is a skill based requirement and does not require any workbook entry.
You will need to be able to demonstrate this requirement to your counselor.

REQUIREMENT 9B: DEMONSTRATE THE SAFETY FACTORS, SUCH AS PROPER VENTILATION, FOR AUXILIARY HEATING DEVICES AND THE PROPER WAY TO FUEL THOSE DEVICES.

Notes:



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REQUIREMENT 10: DO THE FOLLOWING:

REQUIREMENT 10A: EXPLAIN THE COST OF OUTDOOR AND WILDLAND FIRES AND HOW TO PREVENT THEM.

Notes:

REQUIREMENT 10B: DEMONSTRATE SETTING UP AND PUTTING OUT A COOKING FIRE.

This is a skill based requirement and does not require any workbook entry.
You will need to be able to demonstrate this requirement to your counselor.

REQUIREMENT 10C: DEMONSTRATE USING A CAMP STOVE AND LANTERN.

This is a skill based requirement and does not require any workbook entry.
You will need to be able to demonstrate this requirement to your counselor.

REQUIREMENT 10D: EXPLAIN HOW TO SET UP A CAMPSITE SAFE FROM FIRE.

Notes:



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REQUIREMENT 11: VISIT A FIRE STATION.

Fire Station: _____

Date and Place: _____

Notes:

REQUIREMENT 11: IDENTIFY THE TYPES OF FIRE TRUCKS.

Truck #1 Type _____

Notes:

Truck #2 Type _____

Notes:

Truck #3 Type _____

Notes:



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Truck #4 Type _____

Notes:

Truck #5 Type _____

Notes:

REQUIREMENT 11: FIND OUT ABOUT THE FIRE PREVENTION ACTIVITIES IN YOUR COMMUNITY.

Notes:



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REQUIREMENT 12: CHOOSE A FIRE SAFETY-RELATED CAREER THAT INTERESTS YOU AND DESCRIBE THE LEVEL OF EDUCATION REQUIRED AND RESPONSIBILITIES OF A PERSON IN THAT POSITION. TELL WHY THIS POSITION INTERESTS YOU.

Selected Career Opportunity: _____

Education:

Responsibilities:

Why this position interests me:

Notes: