

Cycling

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 #33216. Each Scout must do each requirement. Merit Badge Workbooks and more: Online Resources. Send comments to the workbook developer: craig@craiglincoln.com. Requirements revised: 2005, Workbook updated: May 2009.

Scout's Name:	Unit:
Counselor's Name:	
Show that you know first aid for injuries or illnesses that countypothermia,	
heat reactions,	
frostbite,	
dehydration,	
insect stings,	
tick bites,	
snakebite,	
blisters	
and hyperventilation.	
Prepare it for inspection using a bicycle safety checklist.	
Be sure the bicycle meets local laws.	
3. Show your bicycle to your counselor for inspection. Point or	ut the adjustments for repairs you have made

Cycling p. 2	Merit Badge Workbook	Scout's Name:	
Do the following:			
A. Show all points that need (oiling regularly.		
B. Show points that should be	e checked regularly to make sure the bicycle is sa	afe to ride.	
C. Show how to adjust brake:	s, seat level and height, and steering tube.		
4. Describe how to brake sa	afely with foot breaks		
and with hand brakes			
5. Show how to repair a flat	t. Use an old bicycle tire.		
6. Take a road test with you	ur counselor and demonstrate the following:		
	ıl, and brake, including emergency stops		
	ith light traffic, properly execute a left turn from the		
also demonstrate an alte	ernate left-turn technique used during periods of h	eavy traffic	
, ,	ght turn		
	iate actions at a right-turn-only lane when you are		
E. Show proper curbside	e and road-edge riding.		
	along a row of parked cars		
F. Cross railroad tracks p	properly		
7. Describe your state's tra	ffic laws for bicycles.		
Compare them with motor-	vehicle laws.		

Cycling p. 3 	Merit Badge Workbook	Scout's Name:
Know the bicycle safety g	juidelines.	
		s of fifteen miles each, and two rides of twenty-five utes traveled, and most interesting things seen.
Ride 1 – 10 Miles	Date:	Miles:
Most interesting things so	een:	
Ride 2 – 10 Miles Route:	Date:	
	een:	
Ride 3 – 15 Miles Route:	Date:	Miles:

Cycling p. 4	Merit Badge Workbook	Scout's Name:	
Most interesting things seen: _			
	Date:	Miles:	
Route:			
Most interesting things seen: _			
Ride 5 – 25 Miles Route:	Date:	Miles:	
Most interesting things seen:			
 Ride 6 – 25 Miles	Date:	Miles:	
Route:			
Most interesting things seen:			

Cycling p. 5	Merit	t Badge Workbook	Scout's Name:	
9. After fulfilling require	ement 8, lay out on a road	map a 50-mile trip. S	tay away from main high	ways. Using your map,
50 Mile Ride	Date:		Miles:	Time::
Route:				
Most interesting things	seen:			
	e any Internet resource with		,	
•	: ► scouting.orgTenderfoot► Secon		<u>Age-Appropriate Guideling</u> <u>Rank Videos</u>	Safe Swim DefenseSafety Afloat
	Workbooks: usscouts.org			•
Requirement Resource	_	or <u>montpadagororg</u>		noodatotamorg
	<u>s</u> re are at: <u>http://meritbadge.</u>	ora/wiki/index_nhn/Cvcl	ing and Cycling Skills	
Note: The Boy Scout Cyo Merit Badge using tr	cling Merit Badge does not saditional bicycles, specially ational organizations, and n	specify the type of cycle adapted bicycles, hand	e that is to be used. Scouts Icycles, three-wheel bicycle	es, and quadracycles.
1. First Aid: Hypothermia Hyperventilation	a - <u>Heat Reactions</u> - <u>Frostbi</u>	te - <u>Dehydration</u> - <u>Insec</u>	t Stings - Tick Bites - Snak	<u>cebites</u> - <u>Blisters</u> -
	is your primary reference. S			
	Aid Merit Badge Pamphlet -		cy Kit - <u>Guide to Safe Sco</u>	<u>uting</u> - <u>Physcial</u>
	The sample Bicycle Safety			
·	& Bike Maps - State Helme		<u> </u>	
3. <u>Bike Maintenance</u> - <u>Bil</u> 4. <u>Bike Riding Skills</u>	<u>ke Chain</u> - <u>Bike Gears</u> - <u>Bike</u>	<u>e Brakes</u> - <u>Bike Seat</u> - <u>E</u>	Bike Headset (Steering tube	<u>e)</u>

- **5**. Bike Tires
- 6. Bike Riding Skills
- 7. State Bike Laws & Motor Vehicle Laws Bicycle Laws in Your State
- 8, 9. The Ride Logs are in the Cycling Worksheet.

General Resources

Bicycling Magazine: http://www.bicyclingmagazine.com
Mountain Bike Magazine: http://www.mountainbike.com
American Bicycle Association: http://www.ababmx.com/
League of American Bicyclists: http://www.bikeleague.org/

USA Cycling: http://www.usacycling.org/

BMXPLUS! Magazine: http://www.bmxplusmag.com
Adventure Cycling Association: http://www.adv-cycling.org/
Intl. Mountain Bicycling Association: http://www.imba.com/
Nat. Off-Road Bicycle Assn.: http://www.usacycling.org/mtb/

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Merit Badge Workbook

Scout's Name:		
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	Sample bicycle Salety Checklist
\Box	Frame (1) - Clean and not bent out of shape. No cracks at Frame Joints.
H	Front Fork (2) - Clean and not bent out of shape. No cracks at Frante Joints.
H	Headset Bearing (5) - Well lubricated; turns freely with no binding. No
ш	perceptible play in the assembly.
	Bottom-Bracket Bearing (6) - Turns freely with not more than barely
	perceptible play in the bearing.
	Crank Arms (7) - Clean and not bent out of shape. Tightened securely on the Crankset Axle (8).
	Chainrings (9) - Clean, not worn, and not bent out of shape. Chainring Bolts (10) tightened securely to hold Chainrings to Crankarms.
	Pedals (11) - Bearings well lubricated; turn freely with no play in the bearing. Pedals tightly screwed into Crankarm. Toe Clips (12) functional. Clip-in mechanisms clean and lubricated.
	Fenders (13) - Clean; tightly attached without rattling or rubbing against the Tires (14).
	Wheels (15) - Run true and round. Wheel nuts tight. Closed and tight quick-releases (16). Centered in form or frame members.
	Wheel Bearings (17) in hubs - Well lubricated and properly adjusted to move freely with no more than barely perceptible play.
	Spokes (18) - None broken or bent. Tightened to a uniform tension.
	Tires (19) - Good Tread . Valves 0 completely airtight. Properly inflated to recommended pressure.
	Rims (21) - Clean of all oil and grime. Free of dents or kinks.
	Chain (22) - Proper tension, allowing 1/2 inch of play. No stiff links. Clean, lubricated, and wiped of excess lubrication.
	Gearing (23) - Clean and oiled. Three-speed gears adjusted to eliminate all slipping. Front (24a) and Rear (24b) derailleurs adjusted for proper shifting with Shifters (24c). [Note may be on handlebar or integrated with brake levers.]
	Brakes (25)
	Coaster - Even braking. Operate within a 20-degree back-pedaling motion.
	Hand - Even braking. All nuts tight. Front and rear brakes work without binding. Minimum of 3/16 inch of rubber on Brake Pads . Brake pads aligned with rims and contact rims with a minimum of movement of Hand Controls . No squeal when brakes are used.
	Cables (28) - No frayed ends. No broken strands. All taut.
	Handlebars (29) - Tightened securely. Grips not worn; fit snugly, adjusted to comfort of rider, ends plugged, & in line with wheel.
	Saddle (32) - Height, tilt, and fore/aft position adjusted to rider. All adjustments securely tightened. Seat post not extended beyond maximum mark on post.
	Front White Reflector/Lights (34) - Front light visible for 500 feet. Generator or battery in good operating condition.
	Rear Red Reflectors/Lights (35) - Visible for 300 feet. Lights/Blinkers functional with generator or batteries.
	Bell or Horn (36) - In good operating condition. All accessories well tightened and securely fastened. No broken frames or fasteners.
	Bike Registration (37) - If required by local law, must be displayed on frame.