

Cycling





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

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

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.

No one may add or subtract from the official requirements found in Scouts BSA Requirements (Pub.# 33216) and/or on Scouting.org.

The requirements were last revised on January 1, 2024 • This workbook was updated in January 2024.

Scout's Nam	ıe:	Unit	Date Started	
	Please submit errors, omissions	_ Phone No.:, comments or suggestions about this workbook t	o: Workbooks@USScouts.Org	
Note: Th	ne bicycle used for fulfilling the required by your local traffic	to the requirements for the merit badge should be the requirements must have all required so laws.		
☐ 1. Do	what you should do to anticip	most likely hazards you may encounter while ate, help prevent, mitigate, and respond to the	ese hazards.	

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	Show that you k sunburn, heat e	know first aid for injuries or illnesses that could occur while cycling, including cuts, scratches, blisters, exhaustion, heatstroke, hypothermia, dehydration, insect stings, tick bites, and snakebite.
	Cuts:	
	Scratches:	
	Blisters	
	Sunburn:	
	Heat Exhaustion:	
	Heat Stroke:	
	Hypothermia:	
	Dehydration:	
	Insect stings:	
	Tick bites:	
	Snakebite:	

	ound in your area.
Desc	ribe your state and local laws concerning bicycles.
Disc	uss what is the same and what is different from laws applying to motor vehicles.
Expla	ain where and how you should ride on roads and streets to include lane position, changing lanes, making le
Expla	ain where and how you should ride on roads and streets to include lane position, changing lanes, making le turns, and riding through intersections.
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Scout's Name: _____

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3.	Explain the importance of wearing a properly sized and fitted helmet while cycling and of wearing the right clothing for the weather.
	Know the BSA Bike Safety Guidelines.
<u> </u>	Using a bicycle safety checklist, clean and adjust a bicycle and present it to your counselor for inspection. Do the following:
	a. Show points that should be checked regularly to make sure the bicycle is safe to ride.
	b. Show how to adjust the saddle and handlebars for a proper fit.
	c. Show how to adjust brakes and gear shifting (derailleurs).
	d. Show all points that need regular lubrication.
	e. Show how to repair a flat by removing the tire, replacing or patching the tube, and remounting the tire.f. Show that the bicycle meets local laws
<u></u>	Demonstrate basic bicycle handling skills to your counselor, to include how to properly mount your bicycle, starting and stopping (to include emergency stops), riding in a straight line, turning, shifting gears, scanning, and signaling
	properly mount your bicycle,
	starting and stopping (to include emergency stops),
	riding in a straight line,
	turning,
	shifting gears,
	scanning, and
	signaling.

Cycling Scout's Name: 6. Using the BSA buddy system, complete all of the requirements for ONE of the following options: road biking OR mountain biking.* **OPTION A - Road Biking** a. Take a road test with your counselor and demonstrate the following: 1. On an urban street with light traffic, properly execute a left turn from the center of the street; also demonstrate an alternate left-turn technique used during periods of heavy traffic. 2. Properly execute a right turn. 3. Demonstrate appropriate actions at a right-turn-only lane when you are continuing straight. 4. Show proper curbside and road-edge riding. Show how to ride safely along a row of parked cars. 5. Cross railroad tracks properly. b. Avoiding main highways, take two rides of 10 miles each, two rides of 15 miles each, and two rides of 25 miles each. You must make a report of the rides taken. List dates for the routes traveled, and interesting things seen on the ride Ride 1 – 10Miles Date: _____ Miles: _____ Route: Most interesting things seen: Ride 2 – 10 Miles Date: _____ Miles: ____ Route: Most interesting things seen:

Cycling Scout's Name: Ride 3 – 15 Miles Miles: _____ Date: _____ Route: Most interesting things seen: Ride 4 – 15 Miles Date: _____ Miles: ____ Route: Most interesting things seen:

Cycling Scout's Name: Ride 5 – 25 Miles Miles: _____ Date: _____ Route: Most interesting things seen: Ride 6 – 25 Miles Date: _____ Miles: _____ Route: Most interesting things seen:

Cycling Scout's Name: c. After completing requirement b for the road biking option, do ONE of the following: 1. Lay out on a road map a 50-mile trip. Stay away from main highways. Using your map, make this ride in eight hours or less. 2. Participate in an organized bike tour of at least 50 miles. Make this ride in eight hours or less. Afterward, use the tour's cue sheet to make a map of the ride. Ride 7 – 50 Miles Date: _____ Miles: _____ Route: Most interesting things seen:

Cycli	ng						Scout's Name:	
	OPTION B - Mountain Biking a. Demonstrate the following mountain bike handling skills to your counselor: 1. Neutral position, ready position, bike body separation (side to side, and forward and back), and body for cornering. 2. Show shifting skills as applicable to climbs and obstacles. 3. Show proper technique for riding up (seated, crouched, and standing) and down hill. b. Take a trail ride with your counselor and demonstrate the following: 1. Show proper trail etiquette to hikers and other cyclists, including when to yield the right-of-way. 2. Demonstrate how to correctly cross an obstacle by either going over the obstacle on your bike or dis your bike and crossing over or around the obstacle. 3. Cross rocks, gravel, and roots properly. c. Describe the rules of trail riding, including how to know when a trail is unsuitable for riding. d. On trails approved by your counselor, take two rides of 2 miles each, two rides of 5 miles each, and two miles each. You must make a report of the rides taken. List dates for the routes traveled, and interesting				vay. ike or dismounting , and two rides of 8			
			see		2 Miles	Date:	Miles:	
				Route:				
				Most inte	eresting thi	ngs seen:		
				Ride 2 – Route:	2 Miles	Date:	Miles:	-
				Most inte	eresting thi	ngs seen:		
						J		

Cycling Scout's Name: Ride 3 – 5 Miles Miles: _____ Date: _____ Route: Most interesting things seen: Ride 4 – 5 Miles Date: _____ Miles: _____ Route: Most interesting things seen:

Cycling Scout's Name: Miles: _____ Ride 5 – 8 Miles Date: _____ Route: Most interesting things seen: Ride 6 – 8 Miles Date: _____ Miles: _____ Route: Most interesting things seen:

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	e.	After if nee	er fulfilling the previous requirement, lay out on a trail map a 22-mile trip. You may include multiple trail systems, seeded. Stay away from main highways. Using your map, make this ride in six hours.					
			Ride 7 – 22 Miles	Date:	Miles:			
		Ī	Route:					
		-						
		-						
		-						
		اِ	Most interesting things	seen:				

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.

Cycling Scout's Name: _____

Sample Bicycle Safety Checklist

Frame - Clean and not bent out of shape. No cracks at Frame Joints.					
Front Fork - Clean and not bent out of shape. No cracks at Fork Joints.					
Headset Bearing - Well lubricated; turns freely with no binding. No perceptible play in the assembly.					
Bottom-Bracket Bearing - Turns freely with not more than barely perceptible play in the bearing.					
Crank Arms - Clean and not bent out of shape. Tightened securely on the Crankset Axle.					
Chainrings - Clean, not worn, and not bent out of shape. Chainring Bolts tightened securely to hold Chainrings to Crankarms.					
Pedals - Bearings well lubricated; turn freely with no play in the bearing. Pedals tightly screwed into Crankarm. Toe Clips functional.					
Fenders - Clean; tightly attached without rattling or rubbing against the Tires.					
Wheels - Run true and round. Wheel nuts tight. Closed and tight quick-releases. Centered in form or frame members.					
Wheel Bearings in hubs - Well lubricated and properly adjusted to move freely with no more than barely perceptible play.					
Spokes - None broken or bent. Tightened to a uniform tension.					
Tires - Good Tread. Valves 0 completely airtight. Properly inflated to recommended pressure.					
Rims - Clean of all oil and grime. Free of dents or kinks.					
Chain - Proper tension, allowing 1/2 inch of play. No stiff links. Clean, lubricated, and wiped of excess lubrication.					
Gearing - Clean and oiled. Three-speed gears adjusted to eliminate all slipping. Front 42a and Rear 4b derailleurs adjusted for proper shifting with Shifters 4c.					
Brakes					
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 - No frayed ends. No broken strands. All taut.					
Handlebars - Tightened securely. Grips not worn; fit snugly, adjusted to comfort of rider, ends plugged, & in line with wheel.					
Saddle - Height, tilt, and fore/aft position adjusted to rider. All adjustments securely tightened. Seatpost not extended beyond maximum mark on post.					
Lights - Front light visible for 500 feet. Generator or battery in good operating condition.					
Rear Red Reflectors/Lights - Visible for 300 feet. Lights/Blinkers functional with generator or batteries.					
Bell or Horn - In good operating condition. All accessories well tightened and securely fastened. No broken frames or fasteners.					
Bike Registration - If required by local law, must be displayed on frame.					