

BICYCLE DAY
Cardinal Shelter, Tuesday, July 31
TBA, Assistant Superintendent

GENERAL GUIDELINES

1. Age of Participants:
 - 4-H Age unless noted in specific class guidelines
2. Participation Guidelines:
 - Winner of any class in 2011 is not eligible to participate in the same class in 2012.
 - No one individual may participate in more than one class.
 - Counties may be represented by a maximum of one participant in each class.
 - Any previous trophy winner of Class J-5 is ineligible to compete again.
3. Type of Evaluation:
 - Participants will have a personal interview evaluation with a judge.
 - Bicycle day will include an interview, parts identification, bicycle inspection, and bicycle rider skill course. Class J-5 will have a written examination instead of an interview.
 - The points-off system will be used with penalty points given for errors. The winning contestant will be the one with the lowest total score.
4. Participant to bring:
 - Registration material provided by County 4-H Educator.
 - Completed project manual. Posters are not required
 - All participants will be required to provide their own bicycle.
 - All participants will be required to provide their own helmet and wear it during the skill course activity.
5. For more details and updates related to 4-H Engineering Activities go to their web site:
www.4hengineering.osu.edu

Awards will be presented at approximately 4:30 p.m.

CLASSES

- J-1 Bicycle Adventure I, Bicycling For Fun (ages 10 & younger)
- J-2 Bicycle Adventure I, Bicycling For Fun (ages 11 & older)
- J-3 Bicycle Adventure II, Wheels in Motion (ages 11 & younger)
- J-4 Bicycle Adventure II, Wheels in Motion (ages 12 & older)
- J-5 National Qualifier (ages 14 & older)

All bicycle contestants age 14 & older will be automatically registered to compete in this class, in addition to their assigned class; (J-2 or J-4). There is no separate class for participants 14 & older enrolled in Bicycle Adventure III. They must be registered to compete in class J-5. Contestants in this class will complete a **written exam** of 25 questions taken from all three project books. The winner will compete in the National 4-H Engineering, Science and Leadership Event in September.

This event is designed to provide 4-H'ers enrolled in the 4-H bicycle program with an educational activity. Participants will have an opportunity to demonstrate their knowledge and care of the bicycle and the rules associated with its operation as well as demonstrate their skills in bicycle riding. Safety will be stressed throughout the contest.

This contest will include (time limits as shown):

1. Bicycle inspection
2. Interview (7 minutes); for class J-6 a written exam replaces the interview (20 minutes)
3. Parts identification (8 minutes)
4. Skill riding events
 - Straight-line test
 - Double obstacle test
 - Double Zig-Zag obstacle
 - Turning around
 - Emergency turn and stop
 - Figure eight steering

The contest is designed to be practical demonstration and an attempt has been made to simulate operating conditions.

Judges will preside over the event and their decision will be final.

CONTEST DETAILS

For copies of the appropriate score sheets, please refer to the pages following this section.

AWARDS AND SPONSORS

1. All participants will receive award sponsored by The Ohio State Fair.
2. "Outstanding of the Day" awards, sponsored by The Ohio State Fair, will be presented to the top 20% in each class.
3. One clock trophy will be presented in each class to the top individual. The 2011 sponsors were **James Conger, Conservation Tillage Conference, OSU FABE, and Will Rogers Today.**
4. The winner of Class J-5 earns a place on the Ohio 4-H Engineering Team. They will receive a trip to compete in the bicycle event at the National 4-H Engineering, Science, & Leadership Event.

2011 CLASS Winners (are not eligible to participate in the same class in 2012)

J-1	Bicycle Adventure I (ages 11 & younger)	Cole Shaw, Coshocton
J-2	Bicycle Adventure I (ages 12 & older)	Madalyn Schupp, Tuscarawas
J-3	Bicycle Adventure II (ages 11 & younger)	Connor Hagans, Fulton
J-4	Bicycle Adventure II (ages 12 & older)	Christopher Benson, Fairfield
J-5	National Qualifier (ages 14 & older)	Christopher Benson, Fairfield

JUDGING SCHEDULE

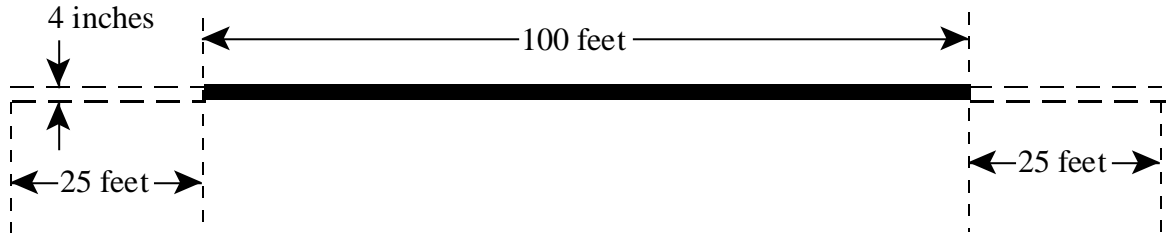
Report to the registration desk 15 minutes before your county is scheduled for judging.

9:00 a.m.:	Champaign, Clark, Delaware, Fairfield, Fayette, Franklin, Knox, Licking, Logan, Madison, Marion, Morrow, Muskingum, Pickaway, Ross, Union
10:00 a.m.:	Allen, Ashland, Coshocton, Clinton, Crawford, Greene, Hardin, Hocking, Holmes, Miami, Montgomery, Perry, Richland, Shelby, Vinton, Wyandot
11:00 a.m.:	Athens, Auglaize, Guernsey, Hancock, Highland, Huron, Jackson, Medina, Morgan, Pike, Seneca, Stark, Summit, Tuscarawas, Warren, Wayne, Wood
1:00 p.m.:	Belmont, Butler, Carroll, Clermont, Darke, Erie, Hamilton, Harrison, Henry, Lorain, Monroe, Noble, Paulding, Portage, Preble, Putnam, Sandusky, Van Wert, Washington
2:00 p.m.:	Adams, Ashtabula, Brown, Columbiana, Cuyahoga, Defiance, Fulton, Gallia, Geauga, Jefferson, Lake, Lawrence, Lucas, Mahoning, Meigs, Mercer, Ottawa, Scioto, Trumbull, Williams

Bicycle Skill Test no. 1 - Straight line test

Purpose: To determine the rider's ability to maintain control of the bicycle while riding a straight line.

Diagram:



Procedure: From a riding start at slow or average speed, the rider travels the entire length of the line with both tires touching the line at all times.

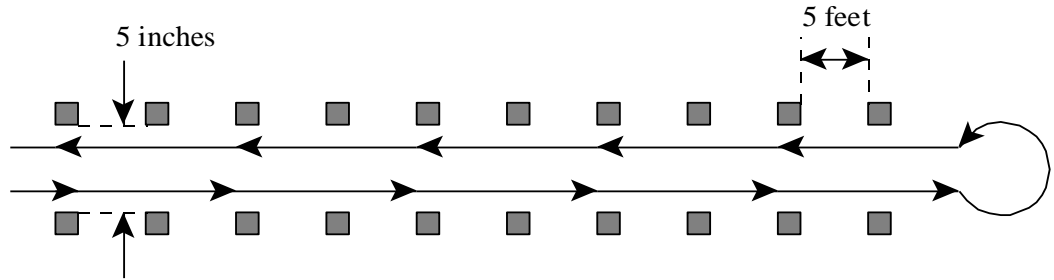
Scoring:

	<u>No. Times</u>		<u>Penalty Points</u>
1. Having either tire leave the line	_____	x2	_____
2. Touching foot to the ground	_____	x5	_____
3. Stopping	_____	x8	_____
4. Sliding wheel	_____	x5	_____
5. Expending an excessive amount of energy	_____	x3	_____
Total number of penalty points			_____

Bicycle Skill Test no. 2 - Double obstacle test

Purpose: To determine the rider's ability to gauge limited space on a straight line.

Diagram:



Procedure: From a riding start, the rider maneuvers slowly between the pairs of obstacles without either tire touching any obstacle. When the rider has gone the entire distance, he or she turns and repeats the performance in the opposite direction.

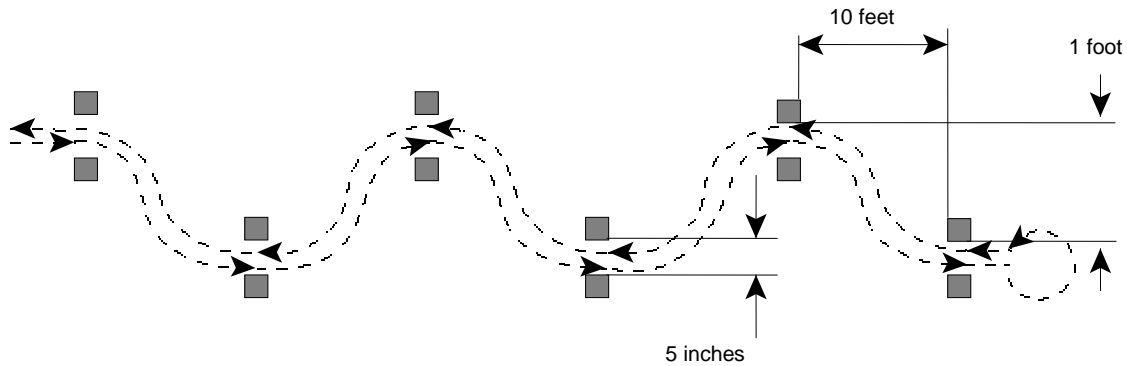
Scoring:

	<u>No. Times</u>		<u>Penalty Points</u>
1. Touching foot to ground	_____	x5	_____
2. Having either tire touch an obstacle	_____	x2	_____
3. Not passing between every pair of obstacles	_____	x5	_____
4. Skidding wheel	_____	x10	_____
5. Using brake excessively	_____	x5	_____
6. Expending an excessive amount of energy	_____	x3	_____
Total number of penalty points			_____

Bicycle Skill Test no. 3 - Double zig-zag obstacle test

Purpose: To test the rider's ability to gauge limited space on a zig-zag line.

Diagram:



Procedure: From a riding start, the cyclist zig-zags at a slow rate of speed between the pairs of obstacles without either tire touching an obstacle. When the rider has traveled the entire distance, he or she turns and repeats the performance in the opposite direction.

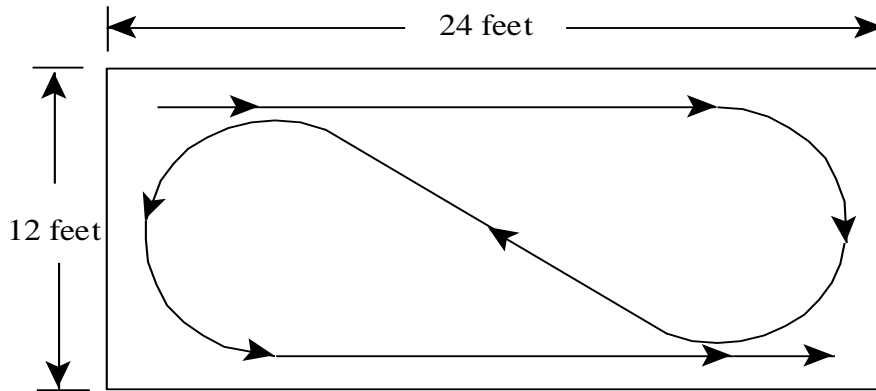
Scoring:

	<u>No. Times</u>		<u>Penalty Points</u>
1. Touching foot to ground	_____	x5	_____
2. Having either tire touch an obstacle	_____	x2	_____
3. Not passing between every pair of obstacles	_____	x5	_____
4. Skidding wheel	_____	x10	_____
5. Using brake excessively	_____	x5	_____
6. Expending an excessive amount of energy	_____	x3	_____
Total number of penalty points			_____

Bicycle Skill Test no. 4 - Turning around

Purpose: To have the rider demonstrate the ability to turn around easily and smoothly within a limited area.

Diagram:



Procedure: The rider travels along the left side of the 12-foot lane, turns clockwise and goes in the opposite direction. Rider then goes along the right side of the lane and turns counterclockwise giving proper signals for all turns.

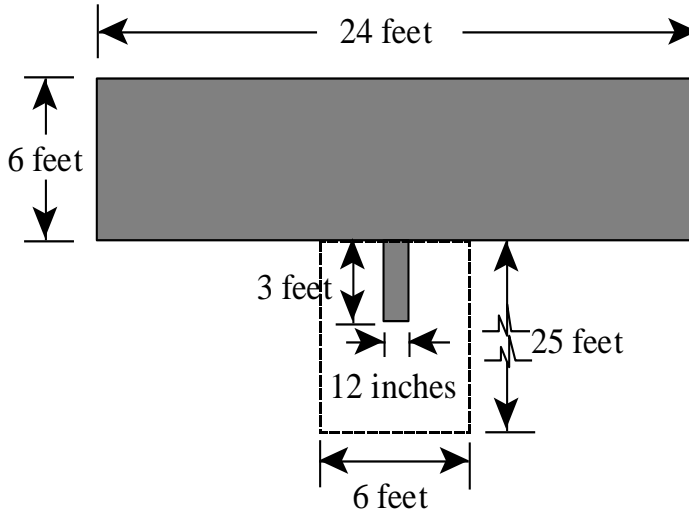
Scoring:

	<u>No. Times</u>		<u>Penalty Points</u>
1. Touching foot to ground	_____	x5	_____
2. Failure to give signals	_____	x5	_____
3. Improper signals given	_____	x5	_____
4. Touching any border line with wheels	_____	x10	_____
5. Off course	_____	x5	_____
6. Failure to make smooth and easy turns	_____	x5	_____
7. Using brakes excessively	_____	x5	_____
Total number of penalty points			_____

Bicycle Skill Test no. 5 - Emergency turn and stop

Purpose: To test the rider's ability to turn and stop within a limited area.

Diagram:



Procedure: The rider enters the 12-inch-wide lane at average speed, turns to the right without either wheel cutting the corner of the lane, and comes to a stop within the lane six-foot wide. The cyclist then repeats the test with a left turn and stop.

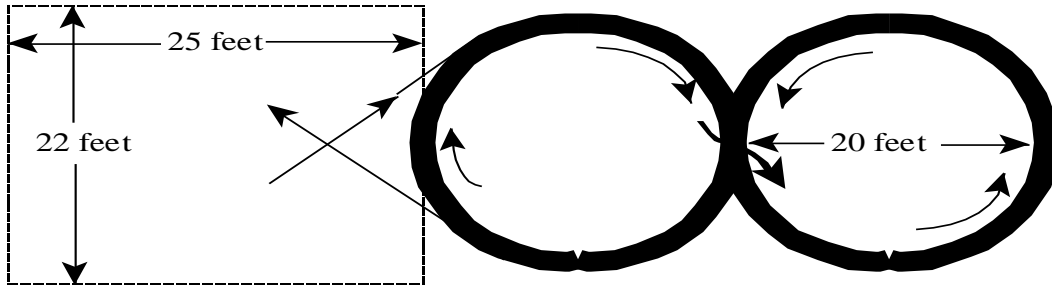
Scoring:

	<u>No. Times</u>		<u>Penalty Points</u>
1. Touching foot to ground	_____	x5	_____
2. Having either tire touch or cross any boundary line	_____	x2	_____
3. Skidding wheel	_____	x5	_____
4. Not having bicycle under control	_____	x10	_____
Total number of penalty points			_____

Bicycle Skill Test no. 6 - Figure eight steering

Purpose: To evaluate the rider's ability in steering and balance.

Diagram:



Procedure: The rider takes a moving start with both hands on the handlebars and makes three complete figure eights. The riding "lane" is 12 inches wide.

Scoring:

	<u>No. Times</u>		<u>Penalty Points</u>
1. Touching foot to ground	_____	x5	_____
2. Not using both hands on the handle bars	_____	x5	_____
3. Having either tire touch any border line	_____	x2	_____
4. Off course	_____	x5	_____
5. Using brakes excessively	_____	x5	_____
6. Expending an excessive amount of energy	_____	x5	_____
Total number of penalty points			_____

Incorrect _____ x5 = _____ Penalty Points Name _____

County _____ Exhibitor Number _____

If two parts to answer, each worth 2.5 points

BICYCLE PARTS IDENTIFICATION

Instructions

- All Contestants:** a) Write the tag number on the line to the left of the most correct name for each part.
b) Give other information (size, position, type, etc.) where space is provided after a word(s).
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- | | |
|------------------------------|-------------------------------|
| _____ Axle _____ | _____ Handlebar Stem _____ |
| _____ Axle Nut | _____ Head Tube (Head Set) |
| _____ Axle Wrench _____ | _____ Horn |
| _____ Bearing _____ | _____ Hub |
| _____ Bearing Cone | _____ Jockey Wheel |
| _____ Bearing Race | _____ Light |
| _____ Bearing Set Wrench | _____ Mirror _____ |
| _____ Bell | _____ Pedal _____ |
| _____ Brace | _____ Pivot Bolt _____ |
| _____ Brake Arm _____ | _____ Quick Release Nut _____ |
| _____ Brake Caliper _____ | _____ Rear Frame Fork _____ |
| _____ Brake Lever | _____ Reflector _____ |
| _____ Brake Pad _____ | _____ Saddle _____ |
| _____ Brake Shoe _____ | _____ Seat Clamp |
| _____ Cable | _____ Seat Post |
| _____ Cable Carrier | _____ Seat Post Clamp |
| _____ Chain | _____ Seat Stay |
| _____ Chain Stay | _____ Seat Tube |
| _____ Crank | _____ Shifting Lever |
| _____ Crank Arm | _____ Spoke |
| _____ Crank Hanger | _____ Spoke Wrench |
| _____ Derailleur _____ | _____ Sprocket |
| _____ Down Tube | _____ Stand _____ |
| _____ Dust Cap | _____ Tension Roller _____ |
| _____ Fender (Mud Guard) | _____ Tire _____ |
| _____ Fender Support Bracket | _____ Top Tube |
| _____ Frame | _____ Tube, Tire |
| _____ Front Fork _____ | _____ Valve Core |
| _____ Gear Cluster _____ | _____ Valve Stem Cap |
| _____ Grip _____ | _____ Wheel Rim |
| _____ Handlebar | |

Name _____ County _____ Number _____

**4-H BICYCLE CONTEST
SAFETY INSPECTION**

(Each item counts 5 points except helmet)

	<u>NO</u>	<u>YES</u>		<u>NO</u>	<u>YES</u>
HELMET:			REAR WHEEL: (Cont.)		
Rider wearing an approved Helmet (50 pts)	___	___	Tire properly inflated?	___	___
SIZE:			Tire tread in good condition?	___	___
Driver straddle frame with both feet on ground?	___	___	Wheel centered in fork?	___	___
Driver straighten leg when seated on Saddle with on heel on low pedal?	___	___	PEDALS:		
Seat post at least 2 inches in frame?	___	___	Pedal bearing properly adjusted?	___	___
Seat (saddle) level and tight?	___	___	Pedals intact and tight?	___	___
HANDLEBARS:			Pedal treads intact and tight?	___	___
In line with wheel and symmetrical?	___	___	CHAIN:		
Adjusted to height below driver's shoulder level?	___	___	Chain tension correct (3/8-1/2 in play)?	___	___
Tightly fitted, horizontally and vertically?	___	___	Sprocket teeth fit properly?	___	___
Tubing ends plugged?	___	___	Chain in good condition?	___	___
Grips in place and tight?	___	___	If multi-speed bike, does gear change operate properly?	___	___
FRAME:			BRAKES:		
Are all tubes in line without bends Or kinks?	___	___	Brakes operate properly?	___	___
FRONT WHEEL:			<u>If Hand Brake:</u>		
Wheels run true, side to side, and round?	___	___	Cable taut, without frayed ends?	___	___
Are all spokes in place and properly tuned?	___	___	Brake Shoes tight?	___	___
Rim free from dents or kinks	___	___	3/16 inch of rubber on shoe?	___	___
Wheel bearing properly adjusted?	___	___	Calipers properly centered	___	___
Tire properly seated on rim?	___	___	Hand span for handlebar brake correct for individual?	___	___
Tire properly inflated?	___	___	OTHER EQUIPMENT:		
Tire tread in good condition?	___	___	Saddle tight and in good condition?	___	___
Wheel centered in fork?	___	___	All reflectors in place and in good condition?	___	___
REAR WHEEL:			Audible warning device?	___	___
Wheel runs true, side to side and round?	___	___	<u>If Equipped for Night Riding</u>		
Are all spokes in place and properly tuned?	___	___	Front and rear lights operate?	___	___
Rim free from dents or kinks?	___	___	The lights of proper type?	___	___
Wheel bearing properly adjusted?	___	___			
Tire properly seated on rim?	___	___			

Special remarks by Inspector (deficiencies to be corrected) _____

Number of "No" Answers _____
X5 = Total Score _____