



Total Points: _____

Name: _____

School: _____

2019 Area IV & VIII Ag.
Technology & Mechanical Systems CDE

Environmental and Natural Resource Skill Area

Points are based on your performance of proper procedures as well as skill activities. Please practice safe methods while completing these activities as some points may be allocated to safety. If you need any clarifications please ask for assistance. Read instructions carefully and thoroughly before completing each question or section.

Part 1 Directions- For this skill area you will need to assemble the sprinkler emitter components as specified.

Specifications:

Emitter should be placed on 16" centers
Emitter length should be 12"
Emitters use a maximum of 3 gph

Materials:

20" X 1/2" diameter main line
30" X 1/4" diameter tubing
2 - sprinkler emitters
2 - barbed connectors
1 - block off connector

Evaluation Criteria Earned	Points Possible	Points
Correct sprinkler emitter length	5	_____
Fitting installed correctly	5	_____
Emitters installed in correct location	5	_____
Block off is installed in correct location	5	_____
	Total:	_____

Part 2 Directions- Please look at the components or parts and respond to the questions with the most appropriate answers. (2 points each)

1. How many gallons of water are stored in a 100' of 1/2" diameter tubing?
1 gallon = 231 cubic inches.

Answer: _____

2. How many emitters will be used in 92' of main line?

Answer: _____

3. What is the maximum amount of water flow needed for 50 sprinkler emitters?

Answer: _____

4. Do the emitters have a variable distance pattern?

Circle the correct answer Yes No

5. Do the sprinkler emitters use a compression type fitting?

Circle the correct answer Yes No