

Name _____ School _____

**2015 Wyoming State FFA CDE
Agricultural Technology and Mechanical Systems
Structural Systems-Welding Skill**

Your elderly neighbor is a gardener and has always maintained the nicest backyard dedicated to trees, an outdoor garden, and a residential sized greenhouse. The greenhouse incorporates a ventilation ridge system for aeration along the rain gutters on each side. Recently, she has been experiencing concern with birds visiting her trees and garden and nesting along the ventilation ridge of the greenhouse. With the hot summer approaching, she needs a non-lethal pest solution to this problem. Knowing that you have experience in structural welding, she has contacted you to ask if you could make a bird spike strip to run along the gutter line. She will pay for materials and provide the necessary measurements for the project. **Do not change polarity or amperage settings on your welder.**

Using the E6013 1/8" diameter electrodes provided, complete the appropriate welds for a section of the bird spike strip in the diagram. Weld 1 - 90°; Weld 2 - 45°



Match the American Welding Society (AWS) Pictures with their correct answer.

1. _____		a.	Arc seam weld
2. _____		b.	Back or backing weld
3. _____		c.	Field weld
4. _____		d.	Single-U butt/groove weld
5. _____		e.	Single-V butt weld with broad root face
6. _____		f.	Single-V butt/groove weld
7. _____		g.	Surfacing
8. _____		h.	Weld all around

Criterion	Points possible	Points earned
Quality of weld 1	10	
Quality of weld 2	10	
Questions	8 (1 point each)	
Safety	2	