Kingsburg High School
Agriculture Mechanics I
Unit: Plumbing
Mr. Mederos

Name: _____

Date: _____

Period: _____

Sprinkler Project

I. Project Information

A. Core Curriculum #: CLF 2154, CLF 2551, CLF 2552, CLF 2553, CLF 2554

B. Time Frame: 3-4 Hours

C. Objective:

II. Bill Of Materials

1) 1- Sprinkler Head
2) 1- ¾" PVC hose adapter
3) 1- ¾" X ½" PVC Bushing
4) 1- ½" PVC TEE SXSXT
5) 1- ½" PVC TEE
6) 2- ½" PVC Cap
7) 4- pieces of ½" PVC (6 inches long)
8) 1 piece of ½" Copper Tubing (6 inches long)
9) 2- Copper Adapters C X M
10) Tefla tape

Estimated Cost: $3.99

III. Tools Required:

1) Hack saw or PVC cutter
2) Pipe cutter
3) Pipe reamer
4) PVC Glue and Primer
5) Propane torch
6) Solder and Flux
7) Adjustable wrench
8) Copper tubing brush
9) File

10. P & G the outside of one end of one of the pieces of pipe and inside of the ½" slip tee and put it together and do the same for the other end of the tee.
11. P & G the outside of one end of one of the pieces of pipe and inside of one of the ½" caps and fit it together and do the same to the other cap and end.

Assembly:

1. Wrap the threaded ends of the copper tubing with tefla tape
2. Using a crescent wrench, tighten the sprinkler to one end of the copper piece.
3. Using a crescent wrench, tighten the sprinkler/copper piece to the PVC structure.
4. Put your name on the bottom of one of the tees and turn your project in with this grade sheet as instructed to do so.

V. Study Questions:

1) What were the key steps to soldering?

2) What is the proper way to primer and glue PVC?

3) Described the proper procedure for finishing this project, once it was constructed.

4) What is the best type of material for this application?