

4-H CLUB RECORD
Electric Project
Division IV

Name _____ Grade _____ Year _____

Name of Club _____ Years in Club _____

Township _____ County _____

I have reviewed the progress of this record and believe it to be correct:

Signature of Leader: _____

Demonstration you gave on something you learned in the electric project this year:

Title or subject _____

Given before: Local 4-H Club _____ County electric meeting _____

County demonstration contest _____ Other organization _____

How many times? _____

FIELD TRIPS

To where? _____

What new things did you learn about electricity on the field trip? _____

What did you learn?

1. A light fixture can be controlled from three separate locations by installing what types of switches?

2. When replacing a receptacle you encountered two brass, two silver, and one green screw on the receptacle. The wires are black, white and bare copper. Which wire(s) should be connected to the brass screws? _____
Which wire(s) should be connected to the silver screws? _____
Which wire(s) should be connected to the green screw? _____

3. Determine the number of circuits, the type of circuits, and the size fuse needed for each circuit for a kitchen with the following appliances: microwave, popcorn popper, coffee maker, dishwasher, refrigerator, toaster, food processor, and electric fry pan. (Note: if the wattage is not listed on the appliance's nameplate, you will need to calculate the watts **using the formula:** $volts \times amps = watts$)

Item	Volts	Amp	Watts
Microwave	120	7.7	
Popcorn popper	120	12.0	
Coffee maker	120	7.0	
Dishwasher	120	12.5	
Refrigerator	120	6.5	
Toaster	120	7.5	
Food processor	120	2.5	
Electric fry pan	120	10.0	

Draw a diagram, on the reverse side of this sheet, of each circuit with the fuse size and appliances connected to each. (NOTE: *Indicate which appliances on each circuit cannot be used at the same time.*)