

4-H Electric

Magnet-Powered Flashlight Judging Sheet

Name: _____ County: _____

Project Description: _____ Ribbon Placing: _____

ITEM

COMMENTS

COIL

- Coil centered between rubber bumpers
- Taped securely to plastic tube
- Wires soldered to terminals of coil

PRINTED CIRCUIT BOARD (PCB)

- No poor solder joints
- No solder bridge
- Uniform solder joints
- Insulation covers wire up to PCB
- Components positioned close to PCB
- Components placed correctly on PCB
- No damage to PCB or components
- All components contained within tube

EXHIBIT

- "Shake Light" illuminates when shaken
- Neatly displayed
- "What I Have Learned" worksheet included (if required)

ACCOMPLISHED SKILLS

- Stripping wire
- Recognizing components
- Use of soldering iron
- Applying of electrical tape
- Following directions