

Name: _____

Wired for Success

Part 1

Directions:

- Your teacher will hand out a copy of the electrical diagrams.
- Follow the symbols on your diagram to show how electricity moves through the circuit.
- After you finish your diagrams, pick one to make incorrect on purpose by adding a small wiring mistake.
- Your “incorrect” diagram will be used in Part 2 when you and your classmates practice troubleshooting.
- When you’re done, answer Part 1 reflection questions about your wiring work before moving on.

Reflection Questions:

1. What did you notice about how electricity flows through your circuit?
2. Which part of the diagram was easiest to complete? Why?
3. Which part was most difficult or confusing? Explain why.
4. What type of mistake would cause a circuit not to work at all?
5. How can paying attention to detail prevent wiring errors or safety issues?
6. How could this skill be useful in agricultural mechanics or a career field?

Name: _____

Part 2

Directions:

- Exchange your “incorrect” diagram with a partner.
- Analyze your partner’s diagram and fill in the troubleshooting table below.
- Rotate partners and repeat until the table is full.

Partner Name	What Is Wrong?	What Would Happen?	How to Fix It?

Reflection Questions:

1. What strategies helped you identify wiring errors most efficiently?
2. How can troubleshooting improve safety and prevent electrical hazards in agricultural environments?