

Quiz 2: Electric circuits

Name: _____

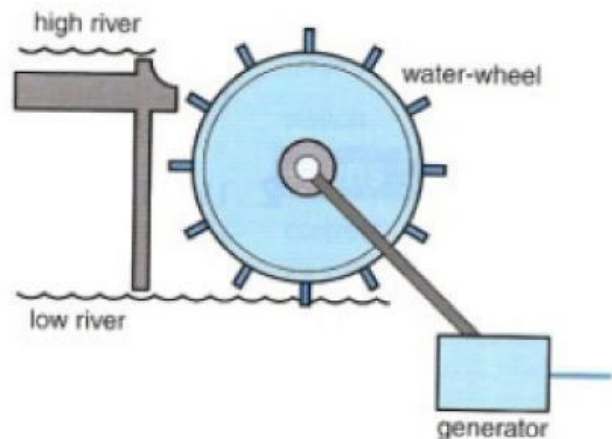
Date: _____

1 Match the words in the box to sentences 1–7.

battery cable controller lamp solar panel electrical current switch

- 1 shines a light when the switch is on: *lamp*
- 2 converts the sun's energy into an electrical current: _____
- 3 stores electricity: _____
- 4 When a _____ is closed, the electrical current can flow.
- 5 DC is a type of _____.
- 6 Electricity passes through the _____ to the lamp or the battery.
- 7 carries the electrical current: _____

- 2  Look at the diagram for a water-wheel and a generator which supplies current to a workshop next to the river. Complete the sentences with the present simple. Then listen and check your answers.



- 1 If the river is high, and the workshop is open, *the current flows from the generator into the workshop.* (current / flow / generator / workshop)
- 2 If the river is high, and the workshop is closed, _____
_____. (current / flow / generator / batteries)
- 3 If the river is low, and the workshop is open, _____
_____. (current / flow / batteries / workshop)
- 4 If the river is low, and the workshop is closed, _____
_____. (current / not / flow)
- 5 If the batteries are full, _____
_____. (current / not / flow / generator / batteries)
- 6 If the batteries are empty, _____
_____. (current / not / flow / batteries / workshop)

Zero Conditional: Practice

1. If a machine _____ (overheat), it _____ (shut down) automatically.
2. If you _____ (press) the emergency stop button, the system _____ (turn off).
3. When the oil level _____ (be) too low, the engine _____ (make) a strange noise.
4. If metal _____ (come) into contact with water, it _____ (rust).
5. If a sensor _____ (detect) an error, it _____ (send) a signal to the control unit.
6. When you _____ (not follow) the maintenance schedule, the equipment _____ (fail) more often.
7. If the temperature _____ (drop) below zero, the pipes _____ (freeze).
8. If the technician _____ (use) the wrong tool, the part _____ (get) damaged.
9. When electrical connections _____ (be) loose, machines _____ (not work) correctly.
10. If the filter _____ (get) clogged, the system _____ (lose) efficiency.
11. If you _____ (not clean) the filters regularly, the machine _____ (not work) efficiently.
12. When a motor _____ (not receive) enough lubrication, it _____ (wear) out quickly.
13. If the technician _____ (not follow) the safety rules, accidents _____ (happen).
14. When we _____ (not check) the pressure levels, the system _____ (not stay) stable.
15. If the control panel _____ (not respond), the operator _____ (not continue) the process.