

(3pts) a1. If an ammeter is placed across the terminals of an illuminated light bulb in an energized circuit, what could happen? Think of all the possible consequences and describe them.

- The circuit will be shorted, since the meter was hooked up incorrectly
- The lightbulb will turn off since the circuit was shorted.
- The ammeter will either
 - a) have blown a fuse if it has a fuse OR
 - b) be broken if it does not have a fuse.
- Wires could melt due to excessive current
- Battery (if used) or other power source could be damaged due to excessive current