

Science 10  
Drawing Series and Parallel Circuits Assignment

Don't forget to include all four parts of a circuit. Also be sure to show the direction of movement!!

Total: /24

1. Three batteries connected in series with a motor and a switch to turn the motor on and off.
2. Two batteries connected in parallel with a light bulb and a switch which are also connected in parallel.
3. A battery connected in series to a light bulb.
4. Three resistors and a battery connected in parallel and a switch to control all three resistors at the same time.
5. A battery connected in parallel with 2 light bulbs and a switch to control each light separately.
6. A battery connected in parallel with 3 light bulbs and a switch to control all three bulbs at the same time.
7. Three resistors and a battery connected in series.
8. Two batteries, a switch, and 2 motors connected in series.
9. Two batteries connected in series, a switch, and two motors connected in parallel. The switch controls both lights at the same time.
10. A battery, a fan and a thermostat connected in series.
11. A 3 cell battery powering two resistors, controlled by a fuse connected in parallel.
12. A single cell connecting a switch to a motor connected in series.
13. A single cell powering a television outlet in series.
14. A 3 cell battery connected in parallel to 3 resistors and a closed switch to control all three resistors at the same time.
15. A single cell battery connected in parallel to 3 resistors and a motor. A switch controls each load separately.