

# Middle School Science

Name:

Date:

## Parallel Circuits Worksheet

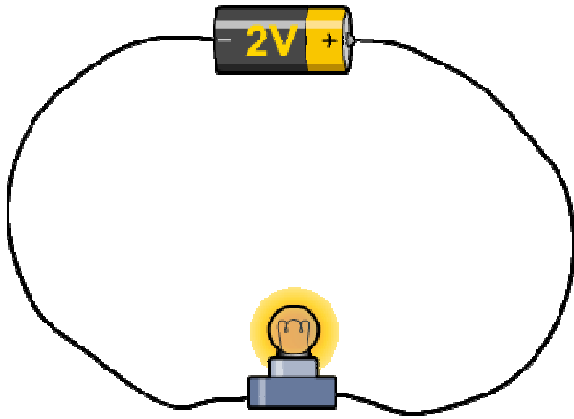
This worksheet accompanies slide 10 of *Parallel Circuits.ppt*

### Comparing series and parallel circuits

Conduct this experiment to investigate the differences between series and parallel circuits.

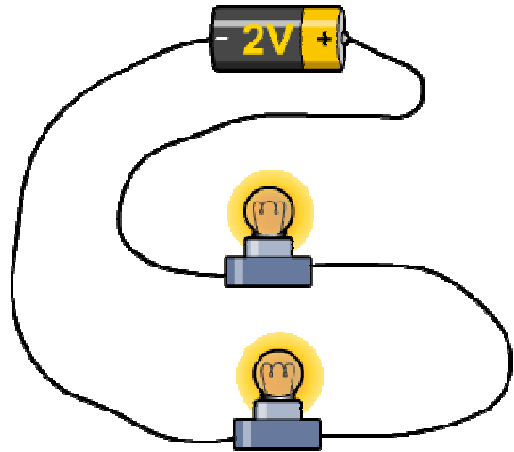
Decide whether each of these circuits is a series or parallel circuit and circle your answer:

1.



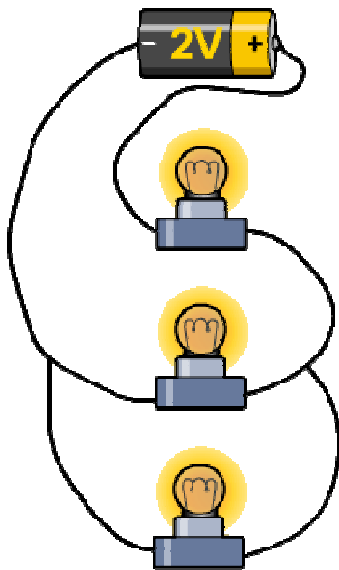
SERIES / PARALLEL

2.



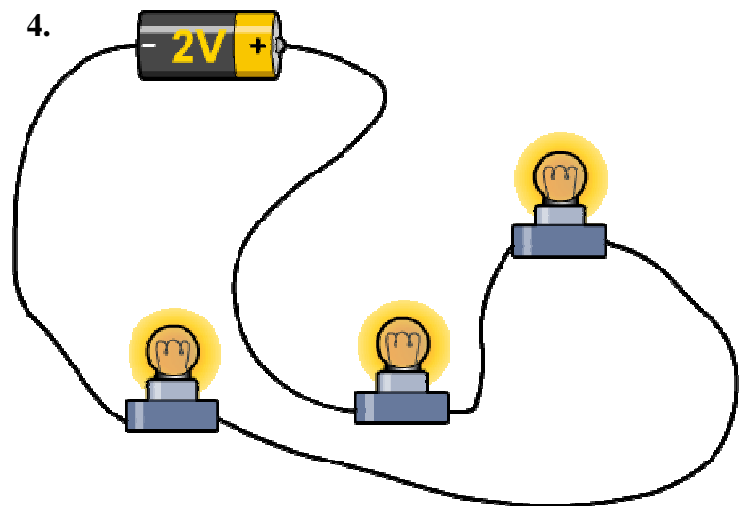
SERIES / PARALLEL

3.



SERIES / PARALLEL

4.



SERIES / PARALLEL

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## Questions:

1. Describe how voltage varies around a series circuit.

.....

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2. How will the voltage of a series circuit be affected by the addition of more bulbs?

.....

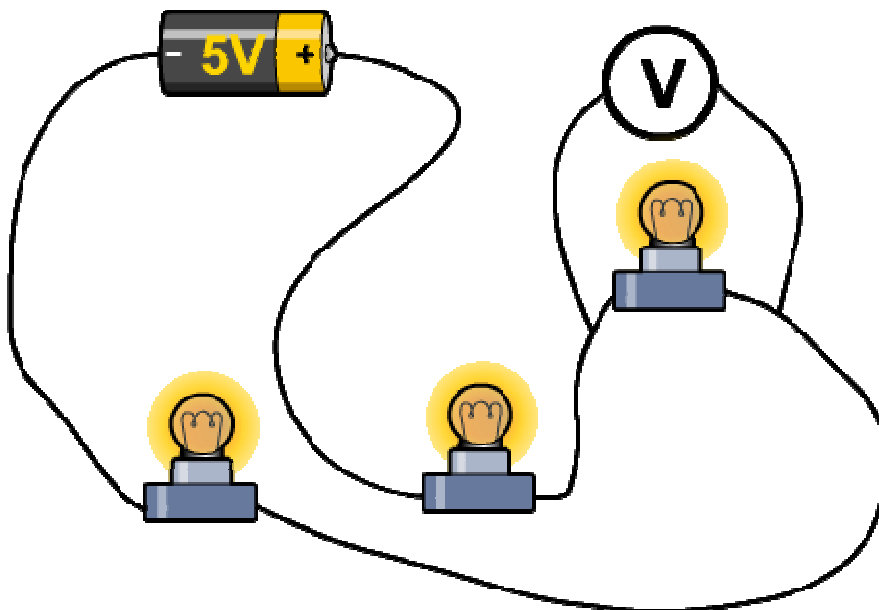
.....

3. How is the voltage around a parallel circuit affected by the addition of more bulbs?

.....

.....

4. Consider the circuit below. If the supply voltage is 5 volts and all the bulbs are identical, what will be the reading at the voltmeter?



Voltmeter = .....