

# Valence Electrons Practice Worksheet

1. Apply your knowledge of valance electrons, Lewis dot structures, and the octet rule to complete the table below.

| Element   | Valence Electrons         |                             | Lewis dot structures | To achieve a full valence shell |                               |
|-----------|---------------------------|-----------------------------|----------------------|---------------------------------|-------------------------------|
|           | Main e <sup>-</sup> level | Number of valence electrons |                      | Number of e <sup>-</sup> gained | Number of e <sup>-</sup> lost |
| Hydrogen  |                           |                             |                      |                                 |                               |
| Lithium   |                           |                             |                      |                                 |                               |
| Cesium    |                           |                             |                      |                                 |                               |
| Magnesium |                           |                             |                      |                                 |                               |
| Calcium   |                           |                             |                      |                                 |                               |
| Strontium |                           |                             |                      |                                 |                               |
| Boron     |                           |                             |                      |                                 |                               |
| Aluminum  |                           |                             |                      |                                 |                               |

2. Fill in the table below with the correct values.

| Element   | Ion symbol       | Number of protons | Number of electrons | Charge | Ion type |
|-----------|------------------|-------------------|---------------------|--------|----------|
|           |                  | 35                | 36                  |        |          |
|           | Sr <sup>2+</sup> |                   |                     |        | Cation   |
| Oxygen    |                  |                   | 10                  | -2     | Anion    |
| Magnesium |                  |                   | 10                  |        |          |
|           |                  |                   | 10                  | +3     |          |
| Selenium  |                  |                   |                     |        | Anion    |
|           | Li <sup>+</sup>  |                   |                     |        |          |

# Valence Electrons And Ions Worksheet Answers

**Jianjun Gao**



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