Ionic Bonding Between A Pair Of Elements Worksheet

For each pair of elements below, draw an atomic diagram showing the valence electrons and their transfer.

and their transfer.
1. Potassium and Iodine
2. Potassium and Sulfur
3. Magnesium and Sulfur
4. Scandium and Fluorine
5. Lithium and Bromine
6. Sodium and Chlorine

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1. Potassium and Iodine

$$K_{\bullet} + \vdots I_{\bullet} \longrightarrow K_{+} + \vdots I_{\bullet} \longrightarrow KI$$

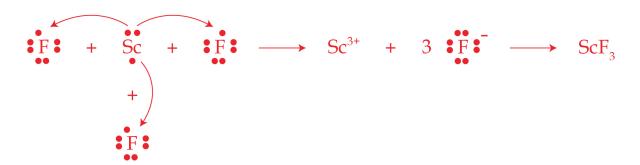
2. Potassium and Sulfur

$$K + S + K \longrightarrow K^+ + S + K^+ \longrightarrow K_2S$$

3. Magnesium and Sulfur

$$Mg + S \longrightarrow Mg^{2+} + S \longrightarrow MgS$$

4. Scandium and Fluorine



5. Lithium and Bromine

$$\text{Li}^{+}$$
 $\stackrel{\bullet}{\bullet}$ Br^{\bullet} \longrightarrow Li^{+} $+$ $\stackrel{\bullet}{\bullet}$ Br^{\bullet} \longrightarrow LiBr

6. Sodium and Chlorine

$$Na + Cl^* \longrightarrow Na^+ + Cl^* \longrightarrow NaCl$$

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