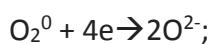
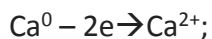
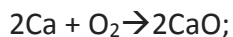


### Answer on Question#49137 – Chemistry –Organic Chemistry

When calcium reacts with oxygen to form an ionic compound each metal atom loses ? electron(s) and each nonmetal atom gains ? electron(s). There must be ? calcium atom(s) for every ? oxygen atom(s) in the reaction.

**Solution:**

“Ca” – metal; “O” – nonmetal;



“Ca” -2 electrons;

“O” +2 electrons;

There must be (1) calcium atom for every (1) oxygen atom in the reaction;

(2 calcium atoms for every 1 molecule O<sub>2</sub>);

**Answer:** “Ca” – loses 2 electrons;

“O” – gains 2 electrons;

There must be (1) calcium atom for every (1) oxygen atom in the reaction;

(2 calcium atoms for every molecule O<sub>2</sub>);