

Task:

Draw a model showing the aqueous Ca^{2+} and Cl^- ions (the ions surrounded by water molecules) showing the correct orientation of water molecules around the cation and anion.

Answer:

Calcium cation is surrounded by oxygen atoms of water molecule, because calcium has positive charge but oxygen negative partial charge.

Anions Cl^- are surrounded by hydrogen atoms of water molecule because Cl^- has negative charge but hydrogen positive partial charge.

