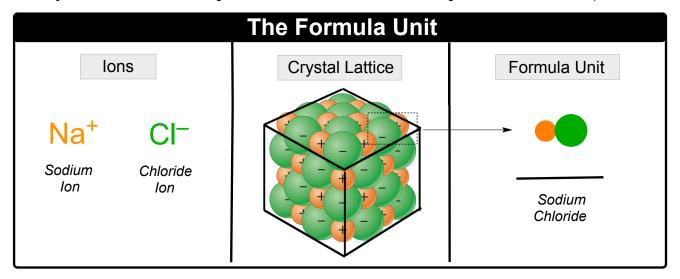
CONCEPT: WRITING FORMULA UNITS OF IONIC COMPOUNDS

- Formula Unit: represents the _____ (simplest) ratio of ions in an ionic solid that combine to give a neutral charge.
 - □ In reality, an ionic solid doesn't exist as an ionic _____ but instead as a *crystal lattice*.
 - □ **Crystal Lattice:** A ____ arrangement of several cations and anions together that form a stable pattern.



Rules for Writing Ionic Compounds

STEP 1: Write the ions involved in the compound from the provided name.

STEP 2: Use these ions to write the formula of the ionic compound.

□ When numbers in charges are the same they to combine the elements.

Aluminum Nitride: Al³⁺ N³⁻ —

□ When numbers in charges are different they ______ to combine the elements.

Barium Phosphate: Ba²⁺ PO₄³⁻ -----

EXAMPLE: Provide the formula unit for the compound formed by the following ions: Mg2+ and SO42-

PRACTICE: Provide the molecular formula for the following compound: Sodium dichromate