

## How Cations Form

1. What is an ion?

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2. What is a cation?

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3. How do cations form?

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4. Why do cations always have a positive charge?

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5. Do metals or non-metals always form cations?

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6. What charge will group 1 cations form?

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7. What charge will group 2 cations form?

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8. What charge will group 3 cations form?

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9. How many protons, electrons and neutrons does a  $\text{Li}^+$  ion have?

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10. How many protons, electrons and neutrons does a  $\text{Ca}^+$  ion have?

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11. How many protons, electrons and neutrons does an  $\text{Al}^+$  ion have?

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12. What is the electronic configuration of a  $\text{K}^+$  ion?

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13. What is the electronic configuration of a  $\text{Mg}^{2+}$  ion?

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14. What is the electronic configuration of an  $\text{Al}^{3+}$  ion?

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