

Activity A:**Ions**Get the Gizmo ready:

- Click **Reset**.
- Check that sodium and chlorine are still selected.



Introduction: Some of the particles that make up atoms have an electrical charge. Electrons are negatively charged, while protons are positively charged. Particles with opposite charges (+ and –) attract, while particles with the same charge (+ and + or – and –) repel.

Question: What happens when atoms gain or lose electrons?

1. **Count:** Electrons move around the nucleus of atoms in specific shells, shown by the rings around the atoms in the Gizmo. The first ring holds two electrons, and the second holds eight. (If you like, you can hide the inner electrons by selecting **Hide inner electrons**.)

- A. Observe the sodium and chlorine atoms. How many electrons are there total in each atom?

Sodium: 11

Chlorine: 17

- B. Each atom is neutrally charged, which means that each atom has the same number of protons and electrons. Based on this, how many protons are in each atom?

Sodium: 11

Chlorine: 17

2. **Transfer:** Drag electrons from one atom to another until you have a charged sodium cation. The cation is shown in the Gizmo. How many electrons does the cation have now?

Sodium: 10

Chlorine: 17

3. **Charge:** Drag electrons from a cation of +1 and add another electron to a charge of +2. The cation indicates the charge of an atom by subtracting the number of electrons from the number of protons. What is the charge of the sodium cation in the Gizmo now?

- A. What is the charge of each cation now?

Sodium: 2

Chlorine: 17

Turn on **Show charge** to check. These charged atoms are called **ions**.

- B. Is each ion stable? Explain.

Yes, the two protons and electrons are balanced and are equal.

One shell is the outer right corner of the Gizmo is stable.

4. **Stable:** Drag 19 electrons to chlorine to make the two atoms in the Gizmo neutral?

Remove the two extra electrons.

Answer Key Of Gizmo Additive Colours

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Answer Key Of Gizmo Additive Colours:

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