

### Activity A:

#### Subatomic particles

#### Get the Gizmo ready:

- Use the arrows to create an atom with two protons, two neutrons, and two electrons.
- Turn on **Show element name**.



**Question:** What are the properties of protons, neutrons, and electrons?

1. **Observe:** Turn on **Show element symbol** and **Element notation**. Three numbers surround the element symbol: the **mass number** ( $A$ ), electrical charge (no number is displayed if the atom is neutral), and the **atomic number** ( $Z$ ).
2. **Investigate:** Watch how the numbers change as you add or remove particles.



- A. Which number is equal to the number of protons in the atom?
- B. How can you calculate the number of neutrons ( $N$ ) in an atom?
- C. Which particle (proton, neutron, or electron) has a  
Positive charge?  
Negative charge?

neutrons

by the number of protons

electron

proton

no charge is 0

3. **Observe:** Turn on **Electron shells**. Electrons are arranged in layers around the nucleus. The number of layers is the number of electron shells. The number of electrons in each shell is also shown. The number of electrons in each shell is the same as the number of protons in the nucleus. The number of electrons in each shell is also shown.

- A. What are the shells called?
- B. What are the shells called?
- C. What are the shells called?

1st shell, 2nd shell

1st shell, 2nd shell

2

4. **Observe:** Turn on **Electron shells**. Answer the following questions.

- A. How many electrons are in a neutral atom of Helium?
- B. How many electrons are in a neutral atom of Hydrogen?
- C. What is the mass number of an atom with 2 protons and 2 neutrons?
- D. What is the mass number of an atom with 2 protons and 1 neutron?
- E. How many electrons are in a neutral atom of Helium?

2

1

4

3

2

# Element Builder Gizmo Answers

**E Durkheim**



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