

### 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

neutron

3. **Explore:** Use the Gizmo to create different combinations of particles. Each combination is represented by the element symbol, mass number, and electrical charge. The table below summarizes the data for each combination. Turn on **Show element symbol** and **Show element notation**. Turn on **Show element name** and **Show element notation**. Turn on **Show element name** and **Show element notation**.

- A. What are the mass numbers of helium?
- B. What are the mass numbers of hydrogen?
- C. What are the mass numbers of oxygen?

2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

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1

4. **Explore:** Use the Gizmo to 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 3 protons and 3 neutrons?
- D. What is the mass number of an atom with 11 protons and 11 neutrons?
- E. How many electrons are in  $\text{He}^{2+}$ ?

2

1

6

22

11

# Element Builder Gizmo Answers

**Lingjun Ying**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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