



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1

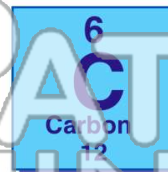
Which statement about the **mass of an electron** is correct?

- A The mass of an electron is equal to the mass of a proton.
- B The mass of an electron is less than the mass of a proton.
- C The mass of an electron is equal to the mass of a neutron.
- D The mass of an electron is greater than the mass of a neutron.

2

How many electrons are in the **outermost principal energy level** of an atom of **carbon** in the ground state?

- A 6
- B 2
- C 3
- D 4



3

In which group do the particles contain **only nucleons**?

- A protons and electrons

4

What is the **most probable location** of an **electron**?

- A an orbital

5



## PREVIEW

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7

of helium?

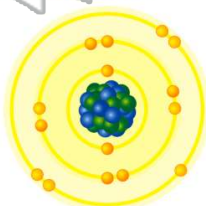
- A 1.00 atom
- B 2.00 atoms
- C  $1.26 \times 10^{24}$  atoms
- D  $6.02 \times 10^{23}$  atoms

- A moving from a higher to a lower principal energy level
- B moving from a lower to a higher principal energy level
- C being lost by the Ne(g) atoms
- D being gained by the Ne(g) atoms

9

Which atom in the ground state has **three half-filled orbitals**?

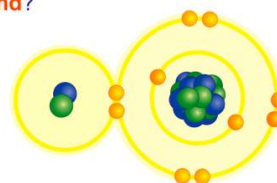
- A P
- B Si
- C Al
- D Li



10

Which particles may be **gained, lost, or shared** by an atom when it forms a **chemical bond**?

- A protons
- B electrons
- C neutrons
- D nucleons





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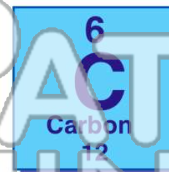
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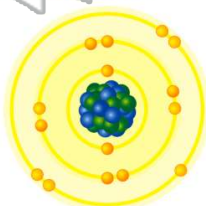
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