

Name:

Class:



C5.1 Pre-Unit Quiz: Carbon Chemistry

1. The atomic structure of elements relates to their position on the Periodic Table.

In which group of the Periodic Table would you find the element represented by this electronic configuration? [1]

Tick (✓) **one** box.

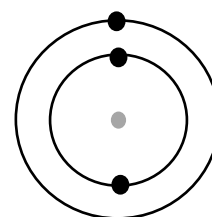
A. Group 2

☐

B. Group 3

☐

C. Group 1

☐

2. Which is the correct definition of a compound?

Tick (✓) **one** box.

[1]

A. Two or more elements mixed together

☐

B. Two or more elements chemically bonded together

☐

C. A group of non-metal atoms bonded together

☐

3. Which is the correct definition of a molecule?

Tick (✓) **one** box.

[1]

A. A group of metals atoms bonded together

☐

B. A group of metal and non-metal atoms bonded together

☐

C. A group of non-metal atoms bonded together

☐

Name:

Class:



4. Which type of bonding would be found in a molecule of oxygen?

Tick (✓) **one** box.

[1]

A. Covalent

☐

B. Ionic

☐

C. There would be no bonding

☐

5. Which type of bonding would be found in sodium chloride?

Tick (✓) **one** box.

[1]

A. Covalent

☐

B. Ionic

☐

C. Metallic

☐

6. Which statement is true of covalent substances?

Tick (✓) **one** box.

[1]

A. They contain non-metal atoms

☐

B. They contain metal atoms

☐

C. They contain metal and non-metal atoms

☐

7. What type of atoms make up both diamond and graphite?

Tick (✓) **one** boxes.

[1]

A. oxygen

☐

B. hydrogen

☐

C. carbon

☐

D. copper

☐

Name:

Class:



8. Choose the correct electronic configuration of a carbon atom.

The atomic number of carbon is 6.

[1]

Tick (✓) **one** box.

A. 2,4

☐

B. 2,2,2

☐

C. 2,8

☐

9. Choose the best explanation for why noble gases are unreactive.

[1]

Tick (✓) **one** box.

A. They all have 8 electrons in their outer shell

☐

B. They have a stable electron arrangement

☐

C. They are neutral because they have equal numbers of protons and electrons

☐

10. Define 'polymer'.

Tick (✓) **one** box.

[1]

A. A polymer is a type of plastic

☐

B. A polymer is a long chain molecule made up of many units

☐

C. A polymer is a type of plastic that melts when heated

☐