

Name: _____ Date: _____

Tiny Architects: The 1st Grade Carbon Lego Challenge

Young scientists build imaginary models and predict how carbon 'glue' holds the natural world together through hands-on structural analysis.

1. Carbon is like a tiny LEGO brick with four 'bumps.' If you wanted to build a long bridge, how would Carbon atoms connect?

- A. They refuse to touch each other
- B. They hold hands to make a long chain
- C. They turn into water instantly
- D. They only live inside of metal spoons

2. If a molecule is shaped like a necklace that connects back to the start, we call it a ____.

- A. Square
- B. Ring
- C. Straight line
- D. Mountain

3. True or False: Carbon is the most important 'building block' found inside your own body.

- A. True
- B. False

4. Imagine you have a 'Carbon Crayon.' Which of these living things is made of carbon 'ink'?

- A. A buzzing honeybee
- B. A cold, silver fork
- C. A glass window
- D. A shiny gold coin

5. Organic chemists are like ____ because they study how to put tiny pieces together to make something new.

- A. Bakers
- B. Designers
- C. Architects
- D. Divers

6. True or False: A diamond and the graphite in your pencil are both made of Carbon atoms, just arranged differently.

- A. True
- B. False

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7. If you add a special 'Oxygen' hat to a carbon chain, the molecule changes. What does this tell us about Carbon?

- A. Carbon likes to be alone
- B. Carbon can't change
- C. Carbon is a friendly teammate to other atoms
- D. Carbon only works with magnets

8. When we burn wood in a campfire, the carbon is reacting with oxygen to create ____.

- A. Ice cream
- B. Energy and heat
- C. Purple paint
- D. Rocks

9. True or False: Scientists can use carbon to create new materials like super-strong plastics.

- A. True
- B. False

10. Which of these is a 'superpower' of the Carbon atom?

- A. It can become invisible
- B. It can make millions of different shapes
- C. It can scream very loudly
- D. It smells like strawberries