

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Tiny Travelers in Carbon City: Pre-K Organic Chemistry Quest

Children identify life-building carbon shapes and recognize how molecules connect like building blocks to form the world around them.

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**1. If you are building a 'Carbon Castle,' which shape is the best at holding hands with four friends at the same time?**

- A. A flat circle
- B. A carbon block with 4 hooks
- C. A smooth rolling ball
- D. A stick with only 1 end

**2. True or False: Carbon building blocks can hold hands to make a long, wiggly caterpillar chain.**

- A. True
- B. False

**3. In our body, Carbon is like a \_\_\_ because it helps hold all our other tiny pieces together.**

- A. Super Glue
- B. Cloud
- C. Spoon
- D. Bubble

**4. Look at a diamond ring and a pencil lead. Even though they look different, they are both made of what secret ingredient?**

- A. Water
- B. Carbon
- C. Cheese
- D. Air

**5. True or False: Carbon atoms are so shy that they only ever hold hands with one other atom.**

- A. True
- B. False

**6. When carbon atoms form a circle and trap a 'smell' inside, we call that a \_\_\_ structure.**

- A. Square
- B. Triangle
- C. Ring
- D. Star

**7. If you want to build a butterfly wing or a flower petal, which tiny worker do you need the most?**

- A. A tiny Gold coin

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- B. A tiny Carbon atom
- C. A piece of Iron
- D. A Silver spoon

**8. True or False: Carbon can make things that are very soft (like oil) and things that are very hard (like a diamond).**

- A. True
- B. False

**9. Plants use \_\_\_ from the air to get the carbon they need to grow big and tall.**

- A. Carbon Dioxide
- B. Dust
- C. Feathers
- D. Raindrops

**10. What happens if we take a carbon chain and add a 'Oxygen' hat to it?**

- A. It disappears
- B. It turns into a different molecule
- C. It becomes a rock
- D. Nothing changes