

Name: _____ Date: _____

The Secret Lego Bricks of Life: Organic Chemistry for Kindergartners

How do tiny invisible hands hold everything together? Kids will design and predict how carbon 'hooks' create the world around them.

1. Imagine Carbon is a friendly octopus. How many 'tentacles' or hands does he have to hold onto his friends?

- A. 1 hand
- B. 2 hands
- C. 4 hands
- D. 10 hands

2. True or False: Carbon atoms can hold hands with other Carbon atoms to make a very long parade line.

- A. True
- B. False

3. If we want to build a 'ring' of Carbon atoms to make a shape like a crown, what is the smallest number of friends we need to close the circle?

- A. 1 friend
- B. 2 friends
- C. 3 friends
- D. 100 friends

4. If Carbon and Hydrogen joined together to make a 'necklace' that smells like a lemon, what are they building?

- A. A rock
- B. A molecule
- C. A planet
- D. A spoon

5. True or False: Every single thing that is alive, like a puppy or a tree, is made using Carbon building blocks.

- A. True
- B. False

6. Carbon is very strong. If we squeeze Carbon atoms together very, very hard for a long time, they can turn into a shiny ____.

- A. Piece of wood
- B. Bubble
- C. Diamond

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D. Glass of water

7. Sometimes Carbon atoms use TWO hands to hold onto ONE friend. What do scientists call this 'double' grip?

- A. A double bond
- B. A bear hug
- C. A secret handshake
- D. A carbon sandwich

8. True or False: You can turn a piece of soft plastic into a different shape because the Carbon chains are sliding past each other like cooked spaghetti.

- A. True
- B. False

9. We breathe out a gas that has one Carbon and two Oxygens. It is what plants 'eat' to grow. What is it?

- A. Milk
- B. Carbon Dioxide
- C. Dirt
- D. Blueberry juice

10. If you were a chemist and you wanted to build a molecule that was very STIFF and didn't move, which shape would you use?

- A. A wiggly line
- B. A heap of dust
- C. A criss-cross cage
- D. A single dot