

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

## Answer Key: Caring Carbon: Creative Chemistry for 1st Grade

Moving beyond simple shapes, students apply basic chemistry concepts to recognize carbon's role in the living world through observation and analysis.

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**1. Carbon is a special building block that loves to make chains. Which of these is a long chain of carbon found in our clothes?**

**Answer:** A) Cotton from a plant

Cotton is made by plants, and plants use carbon to build their strong fibers.

**2. True or False: Carbon is found inside of every living thing, including you!**

**Answer:** A) True

Carbon is the 'Lego' brick of life, helping build your skin, hair, and muscles.

**3. Plants breathe in a gas called Carbon \_\_\_\_\_ to help them grow and make food.**

**Answer:** B) Dioxide

Carbon dioxide is the gas plants take from the air to get the carbon they need.

**4. If you look at a sweet strawberry, which carbon-based part gives it energy and a sweet taste?**

**Answer:** C) Natural Sugar

Sugars are organic molecules made of carbon, hydrogen, and oxygen that provide energy.

**5. True or False: A diamond ring and a pencil lead are both made of the same element: Carbon.**

**Answer:** A) True

Even though they look different, they are both made of pure carbon atoms arranged in different ways.

**6. Bees use carbon to make \_\_\_\_\_, which they use to build their homes (hives).**

**Answer:** C) Wax

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Beeswax is an organic compound made by bees using carbon atoms.

**7. Carbon atoms can stick together in many shapes. Which shape is common for organic molecules?**

**Answer:** A) A zig-zag chain

Carbon atoms often link one after another to form long, flexible chains.

**8. When we eat food, our bodies break down carbon \_\_\_\_\_ to get the energy to run and play.**

**Answer:** B) Molecules

Food is made of organic molecules; our bodies pull them apart to release energy.

**9. Many things that smell, like a lemon or a flower, use carbon. These smells come from tiny organic \_\_\_\_\_.**

**Answer:** B) Oils

Essential oils in plants are organic compounds that create the wonderful scents we smell.

**10. True or False: Carbon chemistry is only for things that are man-made, like plastic toys.**

**Answer:** B) False

While we make plastics with carbon, carbon chemistry happens naturally in trees, animals, and the ocean!