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| **Carbon** | |
| **What is Carbon?** | An \_\_\_\_\_\_\_\_\_\_\_\_\_\_that bonds with other elements to form compounds.  Organic compounds:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Inorganic compounds:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Carbon cannot be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the earth.  The same carbon atoms are used repeatedly on earth by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**.** | |
| **Where is Carbon?** | Carbon atoms \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ through living  organisms also known as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,  the earth’s waters also known as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,  the air, also known as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and  the crust of the planet, also known as the \_\_\_\_\_\_\_\_\_\_\_\_\_. |
| **Carbon Cycle:** | The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of carbon atoms through the 4 spheres of the earth’s system. |

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| 1. **Carbon moves from atmosphere to plants**  MCNA00037_0000[1] | Plants pull \_\_\_\_\_\_\_\_\_from the atmosphere and use it to  make \_\_\_\_\_\_\_\_\_\_\_\_\_\_ –this process is called  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  The carbon becomes part of the plant (stored food).  **Draw an arrow to show the direction carbon is moving in this photo.** |
| 2. **Carbon moves from plants to animals**  MCj03825900000[1] | the carbon that is in \_\_\_\_\_\_\_\_\_\_\_\_\_  moves to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that eat them.  **Draw an arrow to show the direction carbon is moving in this photo** |
| 3. **Carbon moves from animal to animal**https://i.pinimg.com/736x/21/fa/61/21fa61cc6b982e37e41c266f41186dbf--kawaii-illustration-orcas.jpg | Animals that eat other animals get the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  from the \_\_\_\_\_\_\_\_\_\_ of other animals they eat.  **Draw an arrow to show the direction carbon is moving in this photo.** |
| 4. **Carbon moves from plants and animals to the ground.** | When plants and animals die, their bodies are broken down  by organisms called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  Decomposers return the carbon to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  **Draw an arrow to show the direction carbon is moving in this photo.** |
| 5. **Carbon moves from plants and animals to fossil fuels** | Some plants and animals are not decomposed fully and become buried. After millions of years, the carbon ends  up in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ex.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Draw an arrow to show the direction carbon is moving in this photo.** |
| 6. **Carbon moves from animals to the atmosphere.** | Each time you exhale, you are releasing  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_into the atmosphere.  This carbon comes from the breakdown of \_\_\_\_\_\_\_\_\_\_\_  through the process of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  **Draw an arrow to show the direction carbon is moving in this photo.** |
| 7. **Carbon moves from the atmosphere to the ocean.** | The \_\_\_\_\_\_\_\_\_\_\_\_\_, and other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, soak up some carbon from the atmosphere.  **Draw an arrow to show the direction carbon is moving in this photo.** |
| 8. **Carbon moves from rocks to the ocean.** | When [rocks](https://www.windows2universe.org/earth/geology/rocks_intro.html) \_\_\_\_\_\_\_\_\_\_\_\_\_\_, they can add carbon to  surface water which eventually runs off to the [\_\_\_\_\_\_\_\_\_\_\_](https://www.windows2universe.org/earth/Water/ocean.html)  **Draw an arrow to show the direction carbon is moving in this photo.** |

Explain how the movement of carbon through the earth is the same as the flow of energy through the earth.

Explain how the movement of carbon through the earth is different than the flow of energy on earth.