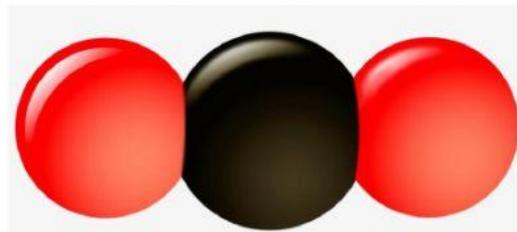


Worksheet: Carbon



A. Drag the correct word to the line spaces below to complete each sentence.

Carbon **Element** **Three** **Compound** **Oxygen**

Double **Single** **Hydrogen** **One** **Two**

1. Carbon dioxide is a _____.
2. Carbon dioxide is formed by atoms of _____ and _____.
3. There are _____ bonds in a molecule of carbon dioxide.
4. There are _____ atoms in a molecule of carbon dioxide.
5. Carbon dioxide has _____ atom of carbon and _____ atoms of oxygen chemically joined together.

B. The table below shows the results of an experiment in the science laboratory where two unknown gases were tested.

Unknown Gas	Lighted splint	Solution X
Gas A	Remains lighted	Remains clear
Gas B	Flame extinguishes	Turns milky white

1. Which tested gas is carbon dioxide? _____
2. What is the name of solution X? _____
3. Which property of carbon dioxide causes the flame to be extinguished?

C. Complete the paragraph below by typing the correct word into the blank spaces.

Choose your answers from the box provided below.

4%	six	twelve	carbon dioxide
energy	photosynthesis	oxygen	glucose
0.04%	respiration	carbon	

The carbon cycle traces the movement of _____ between the air and living organisms. Plants use _____ in the process of _____ to produce _____ gas and _____, which contains carbon. The formula for glucose is $C_6H_{12}O_6$ - this means there are _____ atoms of carbon in a molecule of glucose. Plants and other living organisms use this to carry out _____, which produces the _____ needed for other life processes. It also produces _____ gas which is returned to the air. Air contains _____ carbon dioxide gas.

D. Complete the diagram by dragging the correct word to blank space.

Carbon dioxide **Glucose** **Respiration** **Photosynthesis**

