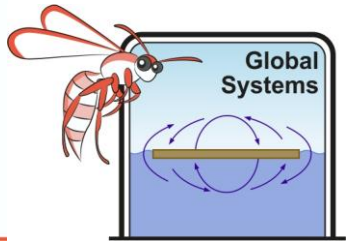
Carbon and the Carbon Cycle – Teacher Review



S L R Q B K N N Q C B I L E R
N I M E C N E O O I O S N L A
O S S O S U O M T M C O D B D
I S R E T P B R E O I T I A I
T O I R H U I R T T R O O T O
U F O E S T U R A C C P X C C
L N C T L S N C A A E E I I A
O M I H S E I Y R T F L D D R
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N E R T I I O E E O Y O Z I O
Y P G H A N N L N C T N N R N
R E T A W E M I L T Y O E E V
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P A R T I A L G S S E C O R P

AGE
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CARBON
CHAIN
COMBUSTION
CYCLE
DIOXIDE
ELECTRON
ELEMENT
FERMENTATION
FOSSIL
FUEL
ISOTOPE
LIMEWATER
LITHIFICATION
NEUTRON
PARTIAL
PERIODICTABLE
PHOTOSYNTHESIS
PRESSURE
PROCESS
PROTON
RADIOCARBON
RESPIRATION
ROCK
SEDIMENT
SOLUTION

For each process in the carbon cycle give an explanation of what it means and an example of where it occurs

Respiration	The breakdown of sugars to release energy	Animal and plant cells (mitochondria)
Photosynthesis	The bringing together of carbon dioxide & water in the presence of light to create sugars	Plant and bacterial cells (chloroplasts)
Fermentation	The anaerobic breakdown of sugars to form carbon dioxide, water and methane	Bacteria
Solution	Conversion of a solid or gas into a liquid by mixing with a liquid	Sugar dissolves in water to form a sugar solution
Lithification	The change of a sediment to form a rock (compaction & cementation)	Sand becomes sandstone
Combustion	Creation of heat and light from the reaction of a substance with oxygen	Wood burns in air if heated