



# Biogeochemical Cycles – “Energy Flows and Matter Cycles” ANSWER KEY

*This activity should be completed in your notebook.*

Read your textbook pages 65 – 73.

1. What is a biogeochemical cycle? **Movement of matter within/between ecosystems – involve biological, geological and chemical processes**
2. What is a “pool”? What are “flows”? **pools – contain matter, flows – processes that move matter (between pools)**

**Color and make a key for each biogeochemical cycle. As you read about each cycle (in your textbook and in the packet) answer the following questions. (You will want to add notes in addition to the questions you answer – especially for the elements: Ca, Mg, K and S)**

## The Water Cycle

1. Name three important needs for water.
  - a. **Photosynthesis**
  - b. **Digestion**
  - c. **cellular respiration**  
\*\*\*[more specifically from your book: Allows essential molecules to move within/between cells, draws nutrients into tree’s leaves, dissolves/removes toxins]\*\*\*
2. How is water distributed through the biosphere? **Hydrologic cycle: evaporation, transpiration, precipitation, runoff, infiltration/percolation**
3. What draws water back to the earth? **Gravity (precipitation)**
4. What is transpiration? **Plants releasing water from their leaves into the atmosphere**
5. What determines which plants to grow where? **Amount of precipitation**
6. What is an aquifer? **Water saturated rock/soil (water permeable rock/soil – can contain water or transport it)**
7. Name two ways water travels from land to end the ocean. **Seeps from aquifer (absorbed by land) or runoff (flows across land to ocean)**
8. What does runoff include? **Water from rivers, melting snow, pollutants**
9. How much water enters the hydrologic cycle? **80% water enters from evaporation (because of the sun).**
10. How much water falls back as rain? **52%**  
\*\*\*Other notes: Major reservoir – oceans – contain 97% of the earth’s water  
Water system – closed system  
Humans alter the system by foresting (decreases transpiration, increases runoff/flooding)  
by paving roads (decreases percolation so less groundwater – increases runoff/evaporation)

## The Carbon Cycle

1. What are macronutrients? Micronutrients?
  - a. **Macronutrients: elements organisms need large amounts of, use large quantities of. Examples include carbon, hydrogen, oxygen, nitrogen, phosphorous, potassium, calcium, magnesium & sulfur.**
  - b. **Micronutrients: elements used in trace (small) amounts. Example include iodine, iron, zinc**
2. What is the role of each of the following in the carbon cycle? State an example of each.
  - a. **Primary producers: plants – incorporate carbon material into organic compounds using photosynthesis**
  - b. **Secondary CONSUMERS (typo): rabbits – eat primary producers**
  - c. **Decomposers: microorganism – break down dead producers/consumers and release organic matter back into the soil for producers to use**
3. Where is most of the Earth’s carbon located and in what form? **Atmosphere, CO<sub>2</sub>**
4. How does carbon enter the biotic part of the ecosystem? **Photosynthesis**
5. What function do plants have in the forest in the carbon cycle? **Take carbon from CO<sub>2</sub> in atmosphere and “fix” it into organic compounds (starch, cellulose, carbohydrates)**
6. How is carbon dioxide returned to the atmosphere? **Respiration of plants & detritus feeders (decomposers)  
\*\*from textbook: combustion – burning fossil fuels**
7. What is a primary producer? **Plants (also known as autotrophs)**

# 3 Cycles Of Matter Worksheet Answer Key

**Yi-Tong Ma**



### **3 Cycles Of Matter Worksheet Answer Key:**

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web 1 problems chapter 1 problem 5 1 show from rst principles that if  $v$  is a vector space over  $r$  or  $c$  then for any set  $x$  the space  $5 1 f x v fu x vg$  is a linear space over the same eld with pointwise operations problem 5 2 if  $v$  is a vector space and  $s \hat{v}$

is a subset which is closed under addition and scalar multiplication

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web jun 1 2014 the following chapters deal with scalar and vector multiplication axial and polar vectors areas differentiation of vector functions gradient curl divergence and analytical properties of the position vector applications of vector analysis to dynamics and physics are the focus of the final chapter including such topics as moving rigid

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web a<sub>1</sub> angular points axes of reference axial vector b<sub>1</sub> b<sub>2</sub> c<sub>1</sub> centre of mass circle coefficients constant coordinates curve diagonals dicular differential direction cosines displacement do dt dr dt ellipse equal expression f<sub>1</sub> figure forces given point grad initial point length let oa let oa a m<sub>1</sub> magnitude and direction n<sub>1</sub> ob b oc c

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web jul 20 2022 three numbers are needed to represent the magnitude and direction of a vector quantity in a three dimensional space these quantities are called vector quantities vector quantities also satisfy two distinct operations vector addition and multiplication of a vector by a scalar

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web 1 1 given two vectors a and b do the equations  $v = a + b$  and  $v = a - b$  determine the vector v uniquely if so find an explicit formula of v in terms of a and b answer the answer is yes clearly if a and b are not orthogonal then there is no solution so assume a b are orthogonal vectors

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web chapter1 vectoranalysis 1 1 definitions elementaryapproach in science and engineering we frequently encounter quantities that have magnitude and magnitude only mass time and temperature these we labelsclarquantities which remain the same no matter what coordinates we use

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web nov 16 2022 basic concepts in this section we will introduce some common notation for vectors as well as some of the basic concepts about vectors such as the magnitude of a vector and unit vectors we also illustrate how to

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web numerically the solution is  $d_{ab} = d_0 \frac{db}{da}$   $i_{10} = i_5 \frac{j_2}{i_3} \frac{j_3}{i_{12}} \frac{j_5}{6}$  find the unit vectors that point from a to the other points b to g in question 2 express each vector in component ij notation

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web 2 review of vector analysis electromagnetic field theory is the study of forces between charged particles resulting in

energy conversion or signal transmission and reception these forces vary in magnitude and direction with time and throughout space so that the theory is a heavy user of vector differential and integral calculus