

Exercise Question

Consider the system of 3 reservoirs in the Model. The reservoirs contain a total salt of 10 kg and 10 kg of water.

- a. Which reservoir has the largest amount of the limiting nutrient in this case? How does water flow affect that reservoir's position in your water flow diagram?

$$10 \text{ kg N}_2 \left(\frac{1 \text{ mol N}_2}{28 \text{ mol N}_2} \right) = 0.357 \text{ mol N}_2$$

$$10 \text{ kg O}_2 \left(\frac{1 \text{ mol O}_2}{32 \text{ mol O}_2} \right) = 0.3125 \text{ mol O}_2$$

	10 kg N ₂	10 kg O ₂	10 kg H ₂ O
Water	10 kg	10 kg	10 kg
Energy 1000 J 1000 J 1000 J	1000 J 1000 J 1000 J	1000 J 1000 J 1000 J	1000 J 1000 J 1000 J
Salts	10 kg	10 kg	10 kg
Algae	10 kg	10 kg	10 kg

B + C = A

- b. What mass of water can be produced? How does water flow affect that reservoir's position in your water flow diagram?

$$0.3125 \text{ mol O}_2 \left(\frac{2 \text{ mol H}_2\text{O}}{1 \text{ mol O}_2} \right) = 0.625 \text{ mol H}_2\text{O}$$

- c. Which reservoir is present in excess, and what does that excess amount affect the reaction in nature?

10 kg of water
10 kg of water

$$0.357 \text{ mol N}_2 \left(\frac{3 \text{ mol H}_2\text{O}}{1 \text{ mol N}_2} \right) = 1.071 \text{ mol H}_2\text{O}$$

Hspi The Pogil Project Limiting Reactants Ciy Vm Answers

JL Elias



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