

Year 12 Chemistry  
Quick Quiz: Environmental Chemistry

1. State the product of decomposition of organic matter:
  - (a) Aerobic, containing nitrogen.
  
  - (b) Anaerobic, containing phosphorus
  
  - (c) Anaerobic, containing sulfur
  
2. Write the equation for photosynthesis
  
3. Write an equation showing how NO is formed in engines of cars.
  
4. State why fertilisers must be in soluble form.
  
5.
  - (a) Calculate the pH of a solution with a  $6 \times 10^{-6} \text{ mol L}^{-1}$  HCl.
  
  - (b) What is the pOH of the same solution?
  
6. Calculate  $[\text{H}^+]$  for a solution with  $\text{pH} = 7.02$
  
7. With an equation, show why rain is naturally acidic.
  
8. State the pH below which rain is “acid rain”.
  
9. Describe two environmental effects of acid rain.