|  |  |
| --- | --- |
| sewage=liquid garbage    decomposer=bacteria      toxin=poison | **Eutrophication**   * lake or pond becomes overly enriched with nutrients * stimulates growth of algae (algal bloom)     **Eutrophication** **Cause**   * naturally - if many nutrients are deposited into an area * human caused   + release of sewage   + runoff that contains animal wastes and fertilizers     **Eutrophication Effects**   * excess nutrients cause algal bloom * as algae die, decomposers use up dissolved oxygen * lack of oxygen causes other organisms to die * some algae produce toxins that are eaten by other organisms     **Preventing Eutrophication**   * treat sewage and waste water * use phosphate-free detergents * land management practices to reduce runoff in suburban & agricultural areas |

**Summary:** *Answer using complete sentences.  A golf course near a lake has recently put fertilizer out to help their grass grow.  A large storm causes a lot of runoff from the golf course into the lake.  How will the lake ecosystem be affected?  (Use details.)*

How do excess nutrients cause a problem for the lake?