

## **Toxins**

1. \_\_\_\_\_ is the possibility of suffering harm from a hazard that can cause injury, disease, economic loss, or environmental damage.
  
2. Place the following in order of the cause of death, largest number of deaths due to smallest number of deaths: pollution, smoking, car accidents.
  
  
  
  
  
  
  
  
  
  
3. Complete the following quote from Paracelcus (1493-1541) 'the \_\_\_\_\_ makes the poison'.
  
  
  
  
  
  
  
  
  
  
4. In which country did the world's largest and most deadly chemical accident occur?
  
  
  
  
  
  
  
  
  
  
5. Why is there a wide spread misconception that all natural chemicals are good and all man-made chemicals are bad?

6. The term 'bioconcentration' relates to the fact that some pollutants may pass from the dissolved phase (water) into the solid phase (animals). What class of pollutants are more likely to bioconcentrate? Explain your answer using a specific example.

7. What is the name of the simple test for carcinogens that is based on the idea that most mutagens are also carcinogens?

8. What is the difference between an acute toxicity and a chronic toxicity?

9. Why are tests on rodents considered to be unreliable indicators of a chemicals toxicity?

10. What are the anticipated long term effects of xenoestrogenic chemicals in the environment?

BONUS: What is 'risk bootstrapping'?