

Name _____
 APES Topic 9 – Toxicology

Date _____
 Mr. Romano

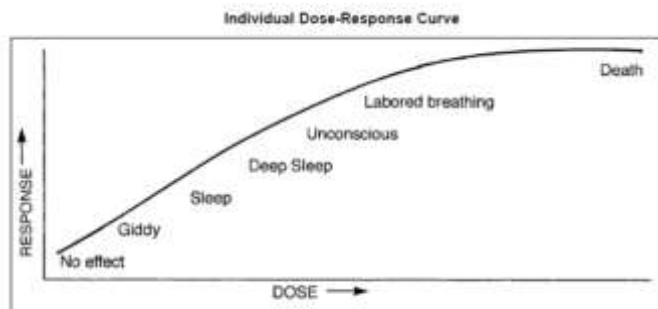
AIM: _____

1. _____

2. _____

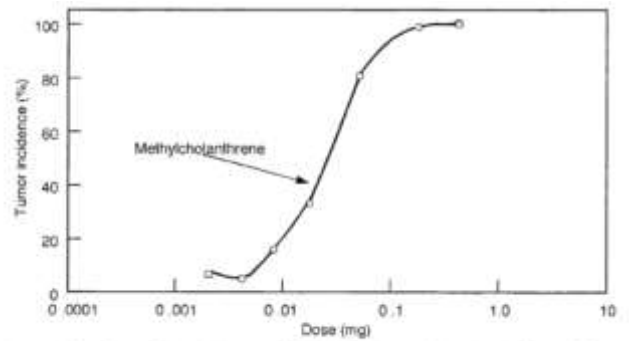
DOSE-RESPONSE MODELS

an individual's to the chemical ethanol
 (alcohol)



From: Marczewski, A.E., and Kamrin, M. *Toxicology for the citizen* (Figure 6). Institute for Environmental Toxicology, Michigan State University, reprinted with permission.

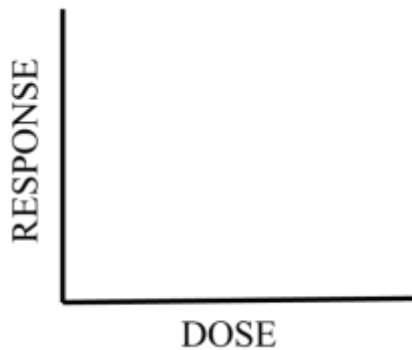
exposure to a cancer-causing chemical
 in a population of mice



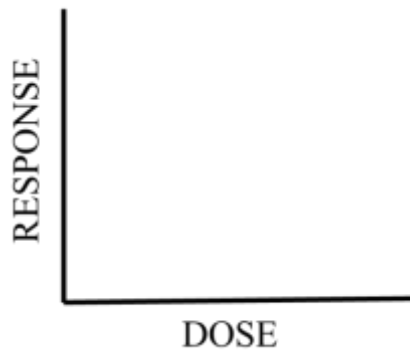
Adapted from: Eaton, D.L., and Klaassen, C.D. 1996. *Principles of toxicology*. In Casarett & Doull's *toxicology: The basic science of poisons* (5th ed.). New York: McGraw-Hill.

TYPES OF DOSE-RESPONSE MODELS

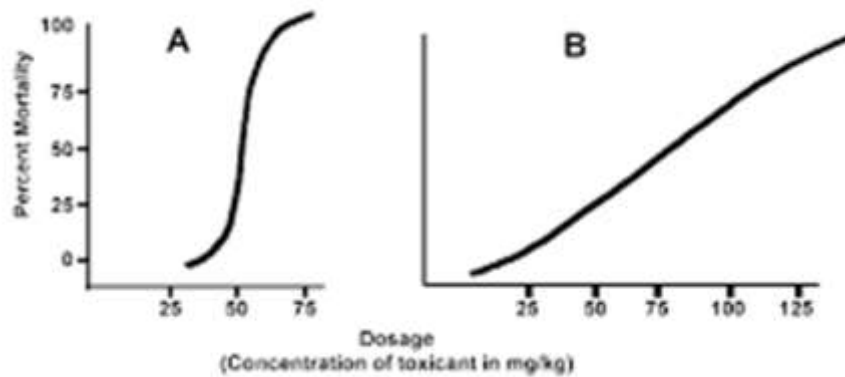
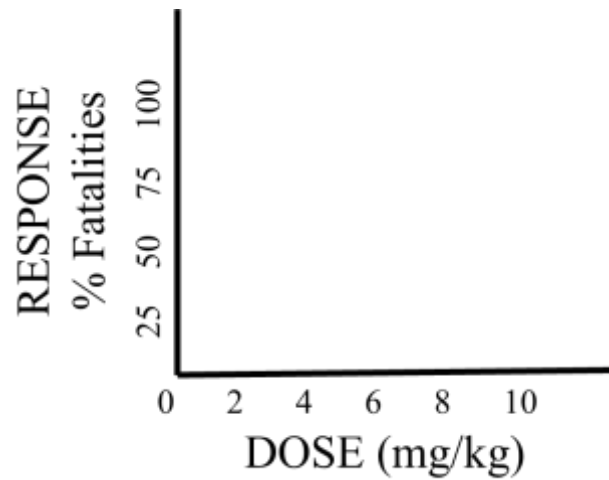
a.



b.



Using the Dose-Response Curve to Determining LD₅₀ of a Toxicant



3. _____
- _____
- _____

****Because the study of toxicity by any of the 3 aforementioned methods always has limitations, exposure standards are set at levels 100-1000 times lower than the estimated harmful level****