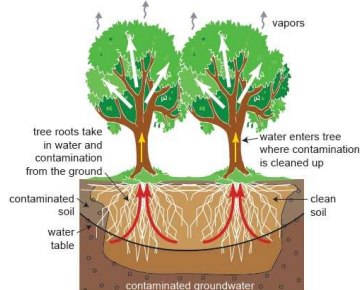


Survive the five!

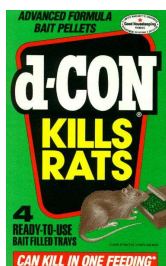
The person that raises their hand first and answers the question correctly sits down. The others go again.

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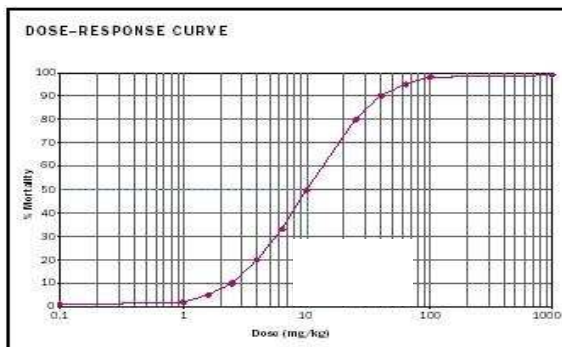
Describe Phytoremediation



Why do 79% of the kit foxes near Bakersfield and 90% of the Bobcats near Los Angeles test positive for Rat Poison?



Determine the LD50 and Explain the concept of threshold level of toxicity.



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Explain the role of a vector.



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Identify two vectors



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Describe Bioaccumulation



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Describe Biomagnification



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What is a hormone mimic?



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Give 2 examples of hormone mimics.



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Diagram Bioaccumulation



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Draw a Linear Response Curve and a Threshold Response Curve on one axis.



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Give 2 examples of closed loop recycling.



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Explain the Superfund Program.



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The lower LD50 the _____ the toxin.



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Give an example of open loop recycling.



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What are the 3 leading causes of death in the US?



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Explain how the plague ended.



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What makes a waste hazardous?



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List the top three most deadly infectious diseases.



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**Make a LD50 graph of the following data
We will do this in class**



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- What would be the least desirable place to leave a used tire?
- Landfill or dumped illegally on the side of the road



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- The "Love Canal" provides an example of ?
- illegally dumped toxic waste within an urban setting



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- What makes waste hazardous?
- its flammable
- Corrosive
- Unstable
- Carcinogenic
- Mutagenic



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- What is the threshold dose response model?
- It implies there a dose below which no harmful effects will occur.

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- What is the best kind of recycling?
- Closed-loop

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- What does the superfund program do?
- Id's hazardous waste
- Monitors cleanup
- Enforces fines

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- If the LD50 is high....
- The chemical in question is relatively safe.

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- Which part of the food chain gets the highest doses of toxins from biomagnification?
- Top.

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- What are some ways of reducing malaria?
- Reduce standing water
- Cultivate fish that eat mosquito larva
- Education

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- Why is DDT hazardous to animals?
- Its an endocrine disruptor with a similar structure to a sex hormone.

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- How do you evaluate risk to humans for a particular chemical?
- Determine
 - Sources and amounts of exposure
 - Amount absorbed
 - Amount excreted
 - Age of person exposed

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- What is a disease Vector?
- Agents of disease transmission

Risks/Waste Ch. 10/21

- What kind of curve/ graph would you expect from a study that shows an increase in physical effects for each increase in the dose of a toxic chemical?
- A linear dose-response curve

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- What was the Love Canal used for once it was abandoned?
- A elementary school and housing project

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- What is Thalidomide?
- Teratogen.

Risks/Waste Ch. 10/21

- What is Thalidomide?
- Teratogen.

Risks/Waste Ch. 10/21

- What factors affect a chemical's dose and response?
- Ability to biomagnify
- Persistence
- Solubility
- Synergism

Risks/Waste Ch. 10/21

- What are the parts of a modern land-fill?
- A methane recovery system
- Wells to monitor contamination
- Cover to prevent water seepage
- Collecting and treating leachate

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- What would the radiation exposure be for a person who lived near a reactor explosion but fled and never returned?
- Acute

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- What is cadmium, and how does it react?
- neurotoxin

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- What is the most difficult thing to recycle?
- plastic

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- What is the largest component of municipal solid waste in the US?
- paper



Risks/Waste Ch. 10/21

- What is the lowest priority in a low waste approach?
- Burying waste

