BioAccumulation Science 10 Notes

Bioaccumulation

- The <u>accumulation</u> of chemicals in organisms
- Chemicals enter your body in 3 ways:
 - 1. ingest (eating)
 - 2. inhaling
 - 3. touch / absorbed
- Some chemicals we are able to metabolise / break down
- Many harmful chemicals cannot be broken down and are not
 effectively removed from your body.

Biomagnification

- At each <u>hophic</u> level, harmful chemicals can get stored, and as the organisms are eaten by the next trophic level, those chemicals are <u>howsfered</u> on to the next level.
- The <u>higher</u> up an organisms is on the food pyramid, the more harmful chemicals can <u>accumulate</u>.

Keystone species

- Organisms that are <u>essential</u> to an ecosystem.
- They may be predators that ______ populations of prey
- They may be <u>low</u> on the food pyramid and provide energy to the rest of the food chain
- If <u>biomagnification</u> occurs in a keystone species, it can affect every other organism in the food web!





