Environmental Science - Chapter 3/Salmon

Section 1 – Environmental Issues

key words: natural resource, renewable resources, nonrenewable resources, pollution, development viewpoint, preservation viewpoint, conservation viewpoint

- What are the three primary types of environmental issues?
- What is the definition of environmental science?
- Name and describe three perspectives (viewpoints) regarding the use of natural resources.
- How can environmental decisions be made when there are competing viewpoints on an issue?

Section 2 – Forests and Fisheries

key words: clear-cutting, fishery, selective cutting, aquaculture, sustainable yield

- Identify two living, renewable resources important to the Pacific Northwest.
- Identify and describe two methods for logging trees. Describe a cost and benefit for each.
- What is a sustainable yield?
- What is a fishery? How does this differ from aquaculture?
- In what ways can a fishery be managed to ensure future populations? (identify four)

Section 3 – Biodiversity

key words: biodiversity, threatened species, keystone species, habitat destruction, genes, habitat fragmentation, extinction, poaching, endangered species, captive breeding

- What are three factors affecting biodiversity?
- What is the most diverse terrestrial habitat on earth? What is the most diverse aquatic environment?
- Why is biodiversity important? (list four reasons)
- What is a keystone species? Identify one example of a keystone species.
- Name four human activities that threaten biodiversity.
- What are three things that have been done to help preserve biodiversity?

Section 4 – Search for New Medicines

key words: taxol, Pacific yew

- Why do plants and animals produce special chemicals?
- How can these chemicals help people? Give an example.
- What is a medical reason for preserving biodiversity?

Salmon

key words: alevin, anadromous, chinook, chum, coho, egg, estuary, fry, migration, pink, redd, smolt, sockeye, spawn, steelhead

- What are seven stages of the Pacific salmon's life cycle?
- Name the five species of Pacific salmon?
- What unique characteristic(s) or life cycle adaptation(s) distinguish one species from another?
- Identify human-caused (4-H's) and natural threats for each stage of the salmon's life.
- What are four characteristics of a healthy salmon stream? (hint: 4-C's)
- What are some things people can do to help ensure future runs of salmon?