INTERMEDIATE SCIENCE 7

UNIT 1:Interactions Within Ecosystems

Study Guide for Test 2

Know the following terms:

Nutrients	Producer	Consumer
Decomposer	Succession	Pioneer Species
Primary Succession	Secondary Succession	Climax Community
Biodiversity	Introduced species	Native species
Pollutants		

Know the following questions:

- describe how matter is recycled in an ecosystem through interactions among plants, animals, fungi and microorganisms

- illustrate and explain the nutrient cycle

- identify changes that have occurred in a local ecosystem over time (ie succession)

- construct a fl ow chart of images to illustrate the changes that will take place in an ecosystem based on the characteristics of the area, including:

    (i) bare rock to forest (primary succession)
    (ii) forest re-growth after fi re (secondary succession

- recognize that as succession occurs in an area, the ecosystem of the area will also change

- describe how our need for a continuous supply of wood resulted in the development of silviculture practice

- make informed decisions about forest harvesting techniques, taking into account the environmental advantages and disadvantages (STSE)

- provide examples of how our understanding of boreal forest ecology has influenced our harvesting practices, identifying the positive effects of these practices (STSE)

- identify various science- and technology-based careers related to forest management and harvesting (STSE)

- defend a course of action to protect the local habitat of a particular organism

- recognize that humans have influenced the natural environment Including:

    (i) habitat loss/destruction
    (ii) harvesting resources
    (iii) pollution
    (iv) introduced species

- discuss the pros and cons of habitat conservation

    pros
    (i) sustainability of resource

(ii) preservation of biodiversity
(iii) eco-tourism

cons
(i) artificial habitats
(ii) economic loss (jobloss, etc.)
(iii) limited human use

- recognize that a variety of groups and individuals are interested in protecting the environment