

SNC 1D Biology Chapter 2 Study Guide

Topic	Focus Areas	Suggested Textbook Questions (pick and choose questions which you find difficult). Full solutions are on the website
2.1 – Life on Planet Earth	<ul style="list-style-type: none"> • Review the board notes posted on the class website on section 2.1 • Define lithosphere, atmosphere, hydrosphere, and biosphere 	2.1 – pg.31 #1-5
2.2 – Introducing Ecosystems	<ul style="list-style-type: none"> • You should be able to differentiate between biotic and abiotic factors • What is a sustainable ecosystem? 	2.2 – pg.35 #1-5
2.4 – Energy Flow in Ecosystems	<ul style="list-style-type: none"> • Understand the process of photosynthesis and cellular respiration. How are these 2 processes related? 	2.4 – pg.41 #1-7, 9-12
2.5 – Food Webs & Ecological Pyramids	<ul style="list-style-type: none"> • What is an ecological niche? • Types of Consumers • Understand how food chains, food webs, and ecological pyramids work and review the examples from the PowerPoint • What does the position of the trophic level indicate, and how does it effect the energy pathways? 	2.5 – pg.47 #1-8
2.6 – Cycling of Matter in Ecosystems	<ul style="list-style-type: none"> • Review the worksheets from class on: <ul style="list-style-type: none"> ○ Water Cycle ○ Nitrogen Cycle ○ Carbon Cycle 	2.6 – pg.51 #1-10
2.7 – Biotic & Abiotic Influences on Ecosystems	<ul style="list-style-type: none"> • Give examples of abiotic and biotic limiting factors • What are the 5 key types of species interactions and how do they work? (competition, predation, mutualism, parasitism, commensalism) • What is meant by carrying capacity? 	2.7 – pg.55 #1-7
2.8 – Terrestrial Ecosystems	<ul style="list-style-type: none"> • What is a biome? What are common types of biomes? • What are Canada’s five terrestrial biomes (mountain forest, tundra, boreal forest, grassland, temperate deciduous forest) and list one abiotic and biotic feature of each 	2.8 – pg.59#1-6
2.9 – Aquatic Ecosystems	<ul style="list-style-type: none"> • Compare and contrast terrestrial and aquatic biomes (similarities and differences) • Describe 3 human activities that threaten terrestrial and aquatic habitats • Define oligotrophic and eutrophic 	2.9 – pg.62 #1-7
3.1 – Services from Natural Ecosystems	<ul style="list-style-type: none"> • What are benefits/services from Natural ecosystems (cultural, products, environmental, economic, other) 	3.1 – pg.79 #1-5