

Unit 1 Human Impact on the Environment

Guided Note Taking

This file will guide you as you work through the learning activities in this unit. You may download this file and print it. Then you can take your notes using pen or pencil. There is some research that shows writing material down and summarizing it can help with the learning process. Alternatively, download this file and store it on your computer hard drive and type notes into it. Choose the method that works best for you.

Learning Activity 1

Biodiversity

Rough Notes - Minds On <i>what features make the James Bay Lowlands Wetlands a good place for waterfowl?</i>

Terms	
Wetlands	
Ecosystems	
Carrying Capacity	
Sustainable Resources	
Renewable Resources	
Ecotourism	

Biodiversity*What is it?***Benefits of Biodiversity****Food Webs**

What are they? Small example?

Threats to Biodiversity

Pollution

Habitat Loss

Invasive Species

Climate Change

Learning Activity 2

Water

Rough Notes - Minds On <i>Where is water found on Earth?</i>

Water Components of Water

Impact of Human Activity on Water	
Home	
Streets, Gardens, Fields	
Lakes, Rivers, Wetlands	
Fishing, Invasive Species	

Careers Involving Water Testing Complete the chart for your choice of career	
Day to day duties	
Education requirements	
Purpose of water testing in this job	

Water Testing	
Presence of macroinvertebrates	
pH	
Dissolved oxygen	
Riparian Environment	
Presence and type of aquatic plants living in water and along the shores	
Turbidity	
Water temperature	

Parts of a Lab Report What information is in each part of a lab report?	
Problem	
Hypothesis	
Observations	
Results and Discussion	
Conclusion	

Learning Activity 3

Soil

Parts of Soil		
Organic Matter		
Inorganic Matter	gravel	
	sand	
	clay	
	silt	
Water		
Air		

Human Impact on Soil Quality	
Pesticides	
Invasive Species	
Compost	

Waste Audit

Organic material	Paper recycling	Container recycling	Trash or garbage
Mass:	Mass:	Mass:	Mass:
% of total mass:	% of total mass:	% of total mass:	% of total mass:

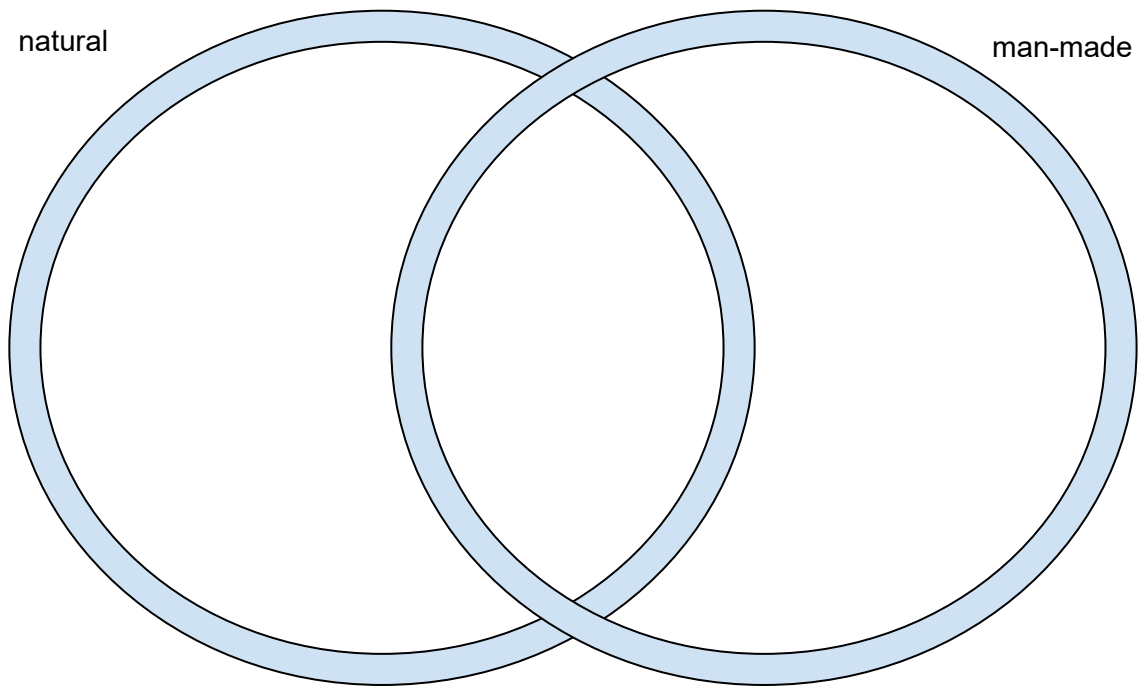
Measuring Soil Quality	
Soil Colour and Texture	
Humus Content	
Macro-organisms and Earthworm Content	
pH	
Soil Density	
Percolation Rate	
Water-Holding Capacity	

Learning Activity 4

Air

Rough Notes - Minds on

Causes of Air Pollution



Air Basics
What makes up air?
Indoor Pollutants
Air Quality Health Index
What is it? What three things determine the AQHI?

Common Air Pollutants	
Ozone	
Fine Particulate Matter	
Sulphur Dioxide	
Carbon Monoxide	
Nitrogen Dioxide	
Total Reduced Sulfur Compounds	

Cycling of Substances in Ecosystems**Water Cycle****Carbon Cycle****Conducting Research on the Web**

Make some rough notes on tips and tricks

Key Concepts Unit 1

Learning Activity 1 - Biodiversity

Ecosystem:

Biodiversity:

Carrying capacity:

Pollution:

Habitat loss:

Climate change:

Invasive species:

Sustainable resources:

Renewable resources:

Ecotourism:

Learning Activity 2 - Water

Water quality:

Macroinvertebrates:

pH:

Turbidity:

Dissolved oxygen:

Riparian environment:

Aquatic plants:

Groundwater:

Surface water:

Native species:

Invasive species:

Learning Activity 3 - Soil

Organic matter or humus:

Inorganic matter:

Percolation rate:

Water-holding capacity:

Macro-organisms:

Porosity:

Biodegradable:

Natural areas:

Disturbed areas:

Learning Activity 4 - Air

Carbon monoxide:

Air Quality Health Index (AQHI):

Fine particulate matter:

Ozone:

Greenhouse gases: