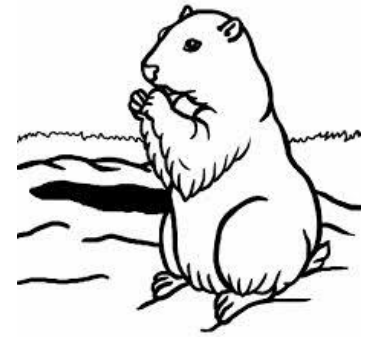


Ecology Review



Chapter 2 – Understanding Ecosystems (The Basics)

- Fill in the blank: p. 68 # 1 (except f, h)
- Multiple Choice: pg. 70 # 1, 3, 4, 6,
- Short Answer: p. 68 # 3, 4, 5, 7, 9, 14, 16, , 17

Vocabulary:

Biosphere	Lithosphere	Hydrosphere	Atmosphere	Gaia Hypothesis	Ecosystem	Biotic
Abiotic	Organism	Population	Community	Sustainable ecosystem	Photosynthesis	Cellular respiration
Producer	Consumer	Herbivore	Carnivore	Omnivore	Trophic level	Predator
Prey	Food chain	Food web	Optimum range	Tolerance range	Carrying capacity	

General Topics:

Photosynthesis – know formula – be familiar with photosynthesis vs. cellular respiration comparison chart.

Cellular respiration – know formula - be familiar with photosynthesis:cellular respiration comparison chart.

Energy pyramid – be familiar with

3 biogeochemical cycles – understand them – be able to answer some basic questions about them.

Terrestrial & Aquatic ecosystems – understand the key abiotic factors

.....

Chapter 3 –Stewardship (Taking care of ecosystems)

- Short answer: p. 110 # 3, 6, 12, 13, 14
p. 113 #26 (cost = disadvantage & benefit = advantage)

Vocabulary

Biodiversity	Extinct	Threatened	Invasive species
--------------	---------	------------	------------------



General Topics:

Services from Ecosystems - know how we benefit from healthy, sustainable ecosystems .
(cultural advantages, products and other services)

Invasive species – be familiar with the spiny water flea example. Also know a couple of others from your notes. Be able to ‘tell the story’ (how they got here and what has happened since).

Controlling invasive species – be able to name and explain 3 methods.

Forestry Methods – be able to describe 3 methods of logging described in class. Be familiar with the impacts of logging as presented in your forestry lab study.



Chapter 4 – Farming & Ecosystems

- Fill-in-the-blank: p. 150 # 1 (not g, h)
- Matching p. 150 #4 p. 152 #11
- Multiple choice: p. 152 #1, 2, 3, 4
- Short answer: p. 153 # 18 p. 151 #12

Vocabulary

Natural fertilizer	Synthetic fertilizer	Pesticide (and other pesticides)	Broad spectrum pesticide
Narrow spectrum pesticide	Non-target species	Bioaccumulation	Biomagnification
Pesticide resistance	DDT		

General Topics:

Farming – fertilizers, water control and Pesticide Use

Issues with Pesticide Use: Non-target species, bioamplification, Rachel Carson (Silent Spring), and pesticide resistance