

APES Unit 5 Study Guide

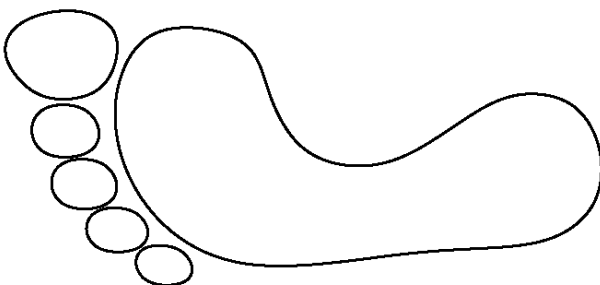
Ultimate Review Packet (5.10 - 5.12)

5.10 - Urbanization

- Explain** why a person living in a city generally has a lower environmental impact than someone living in a suburban or rural community (assuming similar affluence/resource use)
- Define the term impervious/impermeable surface, provide an example, and **explain** how the prevalence of these surfaces in urban areas impacts the local water cycle
- Describe** TWO ways in which urbanization alters the carbon cycle
- Identify** TWO causes for urban sprawl
- Describe** an environmental consequence of urban sprawl

5.11 - Ecological Footprint

- Explain** the difference between an ecological footprint and carbon footprint
- Add labels or drawings to the footprint below to highlight activities/consumption that contribute to your eco & carbon footprint



5.12 - Sustainability

- Define sustainability in APES terms
- Choose an agricultural, logging, mining practice from unit 5 pt.1 and **make a claim** about its sustainability. **Justify** your answer
- Choose a global sustainability indicator and **explain** how it can be used to assess sustainability

APES Unit 5 Ultimate Review Packet (5.13 - 5.15)

5.13 - Reducing Urban Runoff

- a. **Describe** how storm drain systems deliver pollutants to surface waters
- b. **Describe** a method to reduce the volume of stormwater runoff from streets or sidewalks
- c. **Describe** a method that can reduce the pollutants in stormwater runoff entering storm drains
- d. **Describe** an architectural method that can reduce the volume of stormwater runoff

5.14 - Integrated Pest Management (IPM)

- a. **Explain** the concept of integrated pest management (IPM)
- b. **Describe** a biocontrol that could be used to limit pesticide application
- c. **Describe** a physical control that could be used to limit pesticide application
- d. **Describe** an environmental and human health benefit to IPM

5.15 - Sustainable Agriculture

- a. **Identify** the two key goals of sustainable agriculture
- b. **Describe** how each of the following practices prevents soil erosion

Contour plowing:	Windbreaks:	Perennial crops:	Terracing:
No-till agriculture:		Stripcropping/intercropping:	

APES Unit 5 Ultimate Review Packet (5.15 - 5.17)

5.15 - Sustainable Agriculture (cont.)

- a. Define soil fertility
- b. **Describe** how each of the following practices improves soil fertility

Crop rotation:	Green manure:	Crushed limestone:

- c. **Describe** how rotational grazing can prevent soil erosion

5.16 - Aquaculture

- a. **Describe** TWO environmental advantages of aquaculture compared to other meat production methods
- b. **Describe** TWO environmental consequences of aquaculture

5.17 - Sustainable Forestry

- a. **Identify** the TWO goals of sustainable forestry
- b. **Describe** TWO methods that can reduce deforestation
- c. **Describe** TWO methods that forest managers can use to sustainably manage forests