Ch. 4 Jeopardy/Test Study Guide

PROPERTIES OF LIFE

List the 7 properties of living things. cellular organization homeostasis metabolism responsiveness reproduction heredity growth

True or False? All organisms show the seven properties of living things at one or more stages of their lives. *True*

True or False? Nonliving things sometimes show properties of living things. True

WHAT IS AN ECOSYSTEM?(INTRO TO ECOLOGY)

Define:

population- sum of all organisms in an area of the same species (can reproduce)

community-group of actual or potential interacting species living in the same place; a group of populations

ecosystem-community of living organisms interacting with the nonliving components of their environment

biome-a large community of plants and animals that occupy a distinct region

biosphere-the global sum of all ecosystems; the part of the earth and its atmosphere in which living organisms exist or that is capable of supporting life

biotic-living factors in an ecosystem

abiotic-nonliving factors in an ecosystem

biodiversity-a measure of the variety of organisms present in different ecosystems

What two factors determine every biome on the planet? water and temperature

What three key ingredient do plants need for photosynthesis? water, carbon dioxide, sunlight

What biome? 300cm of rain a year, temperature of 20-30 degrees Celcius, high biodiversity *tropical rainforest*

What biome? Little precipitation, below zero temperatures, low biodiversity tundra

What biome? Little precipitation, extremely high temperatures, low biodiversity desert

What are the three 'moderate' biomes? temperate grasslands, temperate deciduous forests, taiga/coniferous forests

ENERGY FLOW IN ECOSYSTEMS

Define trophic level. The level assigned to gets its energy.	o an organism within an ecosystem based on whe	re it
An organism's habitat is like a	_, while the niche is like a	

a. home; job
b. job; home
c. home; family
d. family; job

True or false: No energy is lost in each level as energy travels up a food chain. False

Global warming is most likely caused by the increase in _____. carbon dioxide

Define producer and describe where it fits in the food chain. *Plants that use energy from the sun to produce carbohydrates; occupy the lowest level of the food chain.*

Describe what makes producers and consumers different. *Producers can make their own energy source while consumers must rely on outside energy sources*

At what trophic level do herbivores reside? What are they? 2nd; consumers that eat plants and can break down cellulose into usable compounds

At what trophic level do carnivores reside? What are they? 3rd; consumers that eat herbivores and other carnivores

What is the name for an animal that eats both plants and animals? omnivore

True or false: In an ecosystem, there are more organisms at the top of the food chain than the bottom. *False*

CYCLING OF MATTER

How does water on earth re-enter the atmosphere? through evaporation & transpiration
What happens when water vapor in the atmosphere condenses? precipitation
What is the name of the process when water evaporates from plants? transpiration
Photosynthesis uses and releases carbon dioxide, oxygen
How might an increase in the burning of fossil fuels affect the carbon cycle? puts too much carbon into the cycle that can't be broken down