**AP BIOLOGY 2021-22 March 22, 2022**

**Today’s Agenda (Day 127)**

1. Housekeeping Items

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1. Homework Check:

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1. Class Activity:

🡪CONT’D: Chapters 52 PPT Review

1. Section 52.4 – Interactions between organisms and the environment limit the distribution of species

🡪BEGIN: Chapters 53 PPT Review

1. Section 53.1 – Biological processes influence population density, dispersion and demographics
2. Section 53.2 - The exponential model describes population growth in an idealized, unlimited environment
3. Section 53.3 – The logistic model describes how a population grows more slowly as it nears its carrying capacity
4. Section 53.4 – Life history traits are products of natural selection
5. Section 53.5 – Many factors that regulate population growth are density dependent
6. Section 53.6 - The human population is no longer growing exponentially but is still increasing rapidly

HOMEWORK:

* READ: Chapters 52 – 55, 43, 45, 49, 50
* STUDY: Chapter 52 & 53 Test

Chapters 52 – Introduction to Ecology and Biosphere

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| Abiotic | Abyssal zone | Aphotic zone | Benthic zone | Benthos | biosphere |
| Biotic  | Canopy | Chaparral | Climate | Climograph | Community |
| Community ecology | Coral reef | Deep-sea hydrothermal vents | Desert | Detritus | Dispersal |
| Disturbance | Ecology | Ecosystem | Ecosystem ecology | Ecotone | Estuary |
| Eutrophic lakes | Global ecology | Intertidal zone | Landscape | Landscape ecology | Limnetic zone |
| Littoral zone | Macroclimate | Marine benthic zone | Microclimate | Neritic | Northern coniferous forest |
| Oceanic pelagic zone | Oligotrophic lake | Organismal ecology | Pelagic zone | Photic zone | Population |
| Population ecology | Savanna | Temperate broadleaf forest | Temperate grassland | Thermocline | Tropical dry forest |
| Tropical rain forest | Tropics  | Tundra | Turnover | wetland |  |

Chapters 53 – Population Ecology

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| Age structure | Carrying capacity | Cohort | Demographic transition | Demography | density |
| Density dependent | Density independent | Dispersion | Ecological footprint | Emigration | Exponential population growth |
| Immigration | Iteroparity | k-selection | Life tables | Logistic population growth | Mark-recapture method |
| Metapopulation | Population dynamics | r-selection  | Reproductive table  | Semelparity | Survivorship curve |
| Territoriality | Zero population growth (ZPG) |  |  |  |  |

REMINDERS:

* **QUIZ: Chapter 52 & 53 Vocabulary – March 23**
* TEST: Ch 52 & 53 🡪 March 24
* TEST: Ch 54 & 55 🡪 March 31