

IB Biology Ecology Internal Assessment:

Aim:

To investigate how the construction of recreational areas changes the ecology of the original natural land area.

Research Question:

To what extent does the construction of recreational areas (basketball court, outdoor stage, artificial turf field) affect the original ecology of the natural land, via the comparison of change in biomass (g/m^2), energy (kJ) and carbon (cm^3), found via the quadrat sampling of the recreational areas.

Hypothesis:

"The construction of the basketball court, artificial turf field and outdoor stage will cause the most to the least destruction of the ecology compared to the original land accordingly." The hypothesis was made as I presumed naturally, an area which most closely mimicked the former land such as the artificial turf, would attract the natural ecology thus causing the least destruction of ecology.

Background Knowledge:

Ecology can be broadly defined as the interaction between organisms and its' environment, encompassing biomass, energy and the carbon cycle, all being factors of ecology.

Biomass more specifically defined as the mass of living organisms, including animals, plants, microorganism and other biochemical life forms, measured via mass per unit area (g/m^2). (Fash, 2014) The carbon cycle, another component of ecology, is essential to the natural recycling of organic compounds such as carbon, present in all living organisms. The flow of energy is a constant part of ecology as energy is assimilated from one trophic level to the next, a drastic change in the population size of key initial trophic levels, such as the Producers (grass), would result in massive knock on effects throughout the food web and disrupting the energy flow and adversely affecting the biodiversity in these natural communities.

For example, a food chain found in land surrounding the basketball court would be as follows:



Grass (*Asiaticus compressus*) — Caterpillar (larvae) — Lizard (*Hemidactylus frenatus*) — Bird (*Corvus splendens*)

Food webs are formed via the compilation of food chains, as only 10% of energy is passed on from one trophic level to another, a drastic cut in population size of a primary producer would result in exponential knock on effects, possibly resulting in the destruction of the food chain entirely if the primary consumer (caterpillar larvae), lacks other sources of energy another than the producer (*Asiaticus compressus*). Only 10% of energy is assimilated as the other 90% is lost either via cellular respiration, heat loss, excreted or remained unconsumed. As shown above, the removal of grass to accommodate for recreational areas would result in a shortage of sustenance for the caterpillar, which in turn is prey for the lizard, demonstrating the interrelation between the species' population.

Personal Engagement:

When I was 8 years old my father bought me the movie "The inconvenient truth". Since then, I've been fascinated by global environmental issues including the effects of man made building. Having lived in New York, Milan, and Singapore I have first hand seen the positive and negatives affects of urbanization. While Singapore's transformation from a port town to a metropolis has greatly improved

Ib Biology Ecology Past Papers

Katrin Zwirgmaier



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