3.5.3.4.S BIOL Photosynthesis = energy enters ecosystem - sun's light energy - chemical energy Producers = photosynthetic organisms consumers = obtain energy by consuming other organisms pecamposes = break down complex materials into can be used by anumes die most decomposes are pringiplacteria Earning are detribuses Arrows show director of energy year many orinals do not very upon single good source so good chain within a habitat our link together to goon good web

*After about 4 prophic levels there is not evorys energy to support a large enough breeding population BIOL 3.4.5 Gross production - Total quartity of every that (of plants) plants conver to organic matter. plants use 20-50% gross production in respiration. So little stoned (eg in start / hlorophyte) The rate at which they stone energy. Net production:

Net production = gross production: - reproductions

In farming, net production increased the energy

gross productive energy high (e.g. 24%, but photosyntheou)

max. land woed). Food chains (webs show every you between hophic avels, but provide no quartitive upo. about no./ mass/amount of aregy stored by organisms. To do this = ocological / gramids. fyramid of number usually pyramidal in shape of organisms.

- But no account taken of size so not always! - No. of organisms can be so great that it is impossible to draw it to scale Agranid of bioman