**E2 A community has several trophic levels**

E2.1 Give the functions of producers, consumers and decomposers in a community.

(Text p185-187)

Biomass is the total mass of all of the organisms in a particular population (kg/m2). Eg. The mass of all of the kangaroos in the southern Flinders Ranges. Which trophic level would have the greatest biomass? Why?

\* A hint for this section: Make sure the arrows in a food web or food chain point towards where the ENERGY or FOOD is going to. Eg. If Mr Drake eats a sandwich, the arrow will point to Mr Drake.

<http://openhighschoolcourses.org/pluginfile.php/7372/mod_resource/content/1/Biosphere_Stuff/lsps07_int_oceanfoodweb.swf>

1. ***Explain why, ultimately the existence of all species is dependent on light energy.***
2. ***Herbivores, carnivores and omnivores are all consumers. Explain what this means and give one example of each.***
3. ***What are the different trophic levels? Which level typically has the greatest biomass? Use an example to support your answer***
4. ***What’s the difference between an autotrophic and heterotrophic organism?***
5. ***What’s the difference between a food chain or food web.***
6. ***Complete the food web activity (pdf file found on the common drive).***