# MODEL PLANETS REVIEW ACTIVITY

Using either poster paper or a prezi and working in groups of 4 you will design a "Model Planet" with examples of each of the 7 automatic pilot systems.

ENERGY FLOW
Create a simple food chain with at least 3 organisms.
Using the food chain as a base, create a food web where each organism has at least 2 food sources and 2 predators.

CYCLES
Select one of the nitrogen(L4), carbon(L3), or water(L2) cycle. Into your model planet, draw a cycle with at least 3 different forms of the substance, three different processes, 2 different organisms that participate in the cycle and at least 3 different sources or sinks!

DIVERSITY
Highlight 2 examples in your planet of how diversity allows for the success of your ecosystem. This can be either ecological diversity or genetic diversity.

COMMUNITIES
Identify at least two different communities in your planet. (terrestrial or aquatic, forest or desert etc)
Identify three examples of the different levels of community (Population, community, ecosystem etc)
In your community, identify 4 abiotic components

INTERRELATIONSHIPS
In your model planet be sure to highlight at least one of each of the following categories of relationships. (Symbiotic relationship, feeding, cooperative and competition)

CHANGE
Draw into your model planet two different changes that are being imposed on your ecosystem. These can be human caused or natural, or some of each!

ADAPTATIONS
Give one example of how an organism is naturally well suited to its environment
Give one example of how an organism, population or ecosystem is adapting to a change that has been imposed on it.
Give one example of how an organism is threatened with the level of threat to that organism.(Special concern...extirpated) How is this being conserved (InSitu or ExSitu)?