

Science Department
Year 7 – Summer Term 2
Independent Learning Project

Interdependence

Name: _____

Class: _____

Task	Topic	Possible marks	My marks	RAG
1	Attenborough film and questions	5		
2	Make a food web	5		
3	Make a model of an ecosystem	5		
4	Poster - Design an ecosystem	5		
5	Presentation	5		
	Total	15		

You must choose 2 activities from tasks 1-4, then everyone needs to do task 5.

Task One

<http://www.bing.com/videos/search?q=attenborough+interdependence&adlt=strict&qpv=attenborough+interdependence&view=detail&mid=5F71AAA03999C44165495F71AAA03999C4416549&FORM=VRDGAR>

Watch the video clip above. It is about animal partnerships.

Once you have watched it, you need to produce a fact file about an animal partnership in the wild.

You can use other video clips and other websites if you want to.

Mark out of 5	Success Criteria
1	Name the two species in the animal partnership.
2	Define the word mutualism.
3	Create a fact file about each of the animals in the partnership, including pictures or photographs.
4	Explain how the two animals benefit (help) each other.
5	Evaluate how much each animal benefits from the partnership. Does one benefit more than the other? Explain.

Task Two

Create a food web. Use the internet to research different examples of food webs and design your own.

It can be drawn by hand or digitally or you can make a model.

Mark out of 5	Success Criteria
1	Include at least 10 species.
2	Include at least 4 trophic levels.
3	Draw arrows to show the direction of energy transfer.

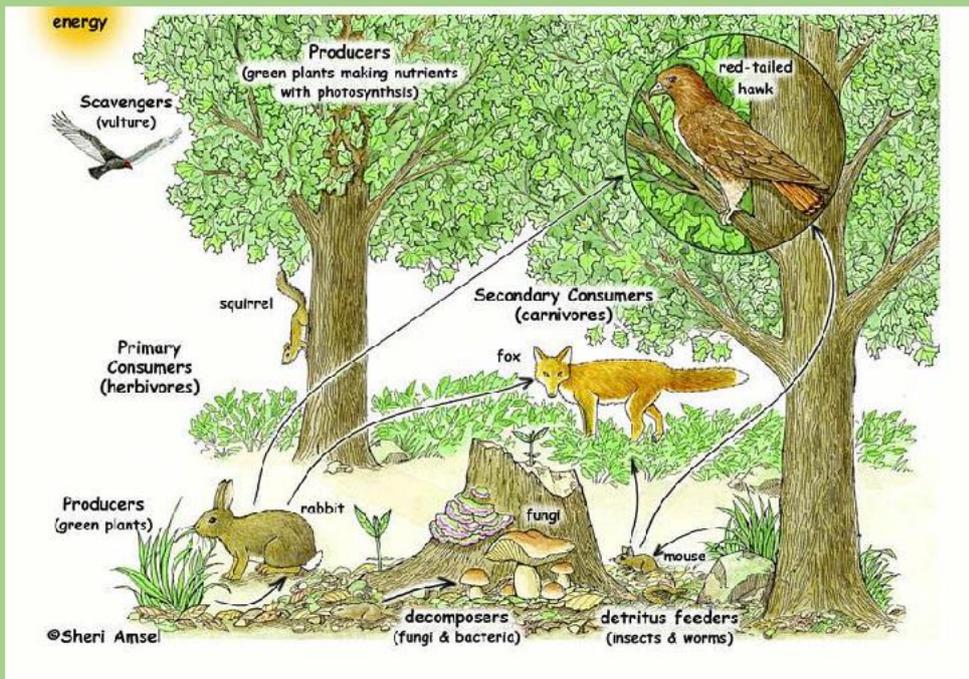
4	Label the producer, primary consumer, secondary consumer, tertiary consumer, predator, prey, herbivore, carnivore and omnivore.
5	Evaluate what would happen if one of the primary consumers were hunted.

Task Three

Make a model of an ecosystem showing the organisms living there and how they co-exist.

An example of a model ecosystem can be found below.

Mark out of 5	Success Criteria
1	Choose the type of habitat your organisms live in.
2	Decide which plants and animals would live there.
3	Describe the interactions between some of the species (e.g. predator and prey, or herbivore and producer).
4	Explain the feeding habits of the animals in your ecosystem.
5	Evaluate what would happen if one of the animals were hunted.



Task Four

Design an ecosystem and present this as a poster.

Mark out of 5	Success Criteria
1	Choose the type of habitat your organisms live in.
2	Decide which plants and animals would live there.
3	Describe the interactions between some of the species (e.g. predator and prey, or herbivore and producer).
4	Explain the feeding habits of the animals in your ecosystem.
5	Evaluate what would happen if one of the animals were hunted.

Task Five

You need to make a presentation to show the rest of your class what you have been working on.

It can be on PowerPoint, but doesn't have to be.

If you have made a poster and written an essay, you can show/talk about those.

Whether you use PowerPoint or not, you need to practice your presentation, so you know exactly what you are going to say.

It should last between 1 and 2 minutes.

Mark out of 5	Success Criteria
0	No presentation.
1	A very short presentation with a short description of the tasks.
2	A short presentation with a description of the tasks and 1 fact.
3	A short presentation with a description of each task carried out and 2 facts.
4	A presentation that lasts 1 minute with a description of each task carried out and a few facts that have been learnt.
5	A presentation that lasts between 1 and 2 minutes with a detailed description and facts learnt from each task carried out.