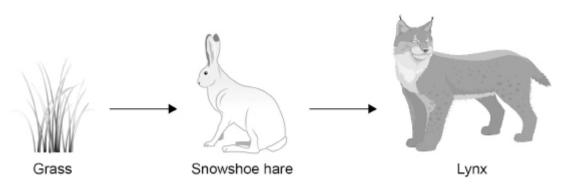
Questions are for separate science science students only

Q1.

Different species in a habitat may depend on each other for food.

Figure 1 shows a food chain.

Figure 1



(a) The grass needs energy to grow.

What is the source of energy for the grass?

(1)

(b) The table below lists different types of feeding relationship.

Feeding relationship	Organism
Secondary consumer	Lynx
Primary consumer	
Producer	
Herbivore	
Carnivore	
Prey	
Predator	

Write the name of **one** organism from **Figure 1** in each box in the table above.

Each organism may be written in one box or in more than one box.

The first box has been completed for you.

(3)

(c) **Figure 2** shows the appearance of the snowshoe hare in the summer and in the winter.

Figure 2

Snowshoe hare in summer

Snowshoe hare in winter

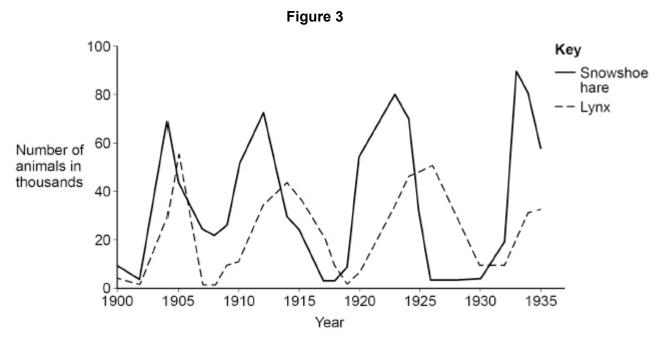




The snowshoe hare has a different fur colour in the summer than in the winter.

пе
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Figure 3 shows how the number of snowshoe hares and the number of lynx varied in one area between 1900 and 1935.



(d) **Figure 3** shows that the number of snowshoe hares and the number of lynx increase and decrease several times.

Suggest **two** reasons why the number of **snowshoe hares** increases.

1	
2	

(e) The number of snowshoe hares increased and decreased four times between 1900 and 1935.

What effect does an **increase** in the number of snowshoe hares have on the number of lynx?

(1)

(2)

(f)	Suggest one reason why the number of lynx decreased from 1915 to 1919.	
	Use information from Figure 3.	
		(1)
(g)	When the snowshoe hare eats grass, about 90% of the biomass of the grass is lost.	
	Give two ways the biomass is lost. (biology only)	
	1	_
	2	
		(2)
	(Total 13 ı	marks)