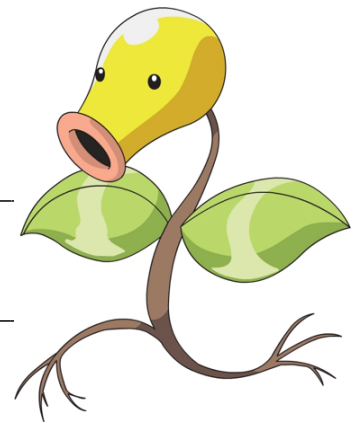**Science Year 7 2022**
Task 4 – Biokemon Card Validation

Student Name: ___Answers_____

Teacher: _____

Conditions:
- 45 minutes in class
- Must bring completed Biokemon Card to use in the validation

Mark Allocation:

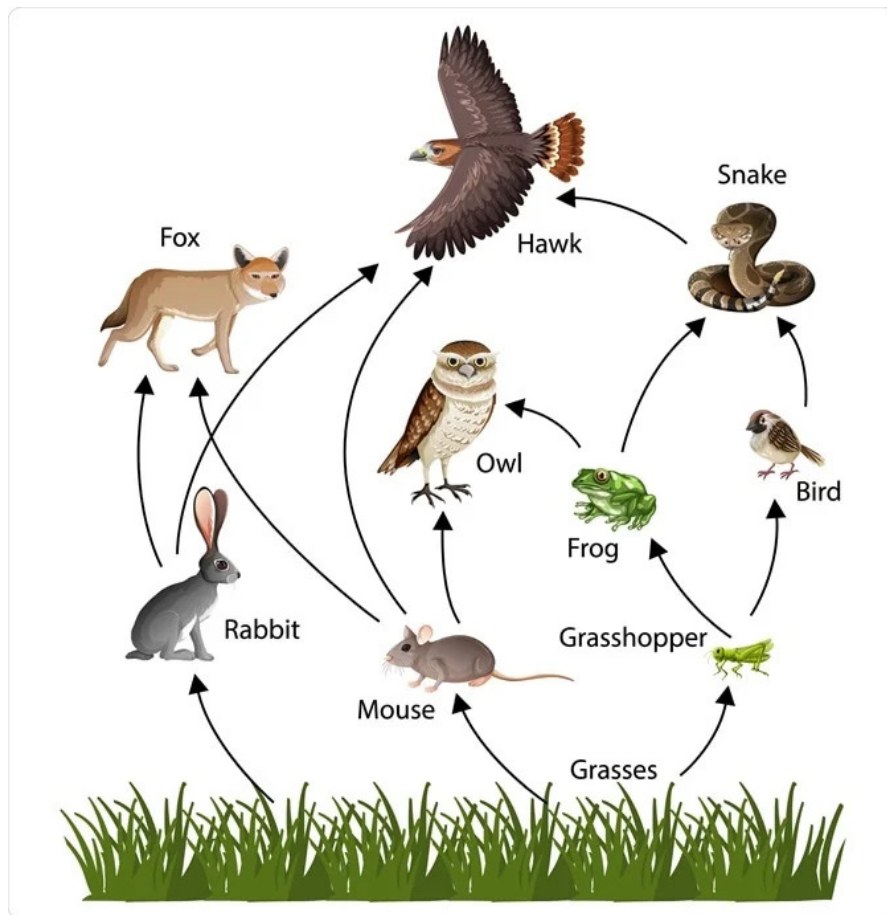|	
Part A: Biokemon card Handed in on time All aspects completed Effort has been put in Card is aesthetically pleasing Organism fits in chosen ecosystem	/5
Part B: Validation	/25
Total	/30

Use the food web below to answer Questions 1-5

1. Describe what the arrow represents in the food web   (1 mark)

<u>Transfer of energy (1)</u>

_____

2. What is the source of all of the energy in the food web?   (1 mark)

<u>The sun (1)</u>

3. Draw two food chains that occur in the ecosystem. Your food chains should include at least three organisms (four steps) (4 marks)

2 marks each

-1 mark for the following:
- lines instead of arrows
- doesn't include the sun (if taught that way)
- less than 3 species
- very messy

4. Complete the table to show one organism from the food web for each of the trophic levels and ecosystem roles (4 marks)

Ecosystem role	Organism from food web
Predator	Owl
Secondary consumer	Frog
Primary consumer	Grasshopper
Producer	Grass

5. Identify one organism and it's trophic level (position in the food web) and describe the features of that trophic level. (2 marks)

A mouse is a primary consumer (1)
It is a primary consumer because
it eats producers (0.5) making it a
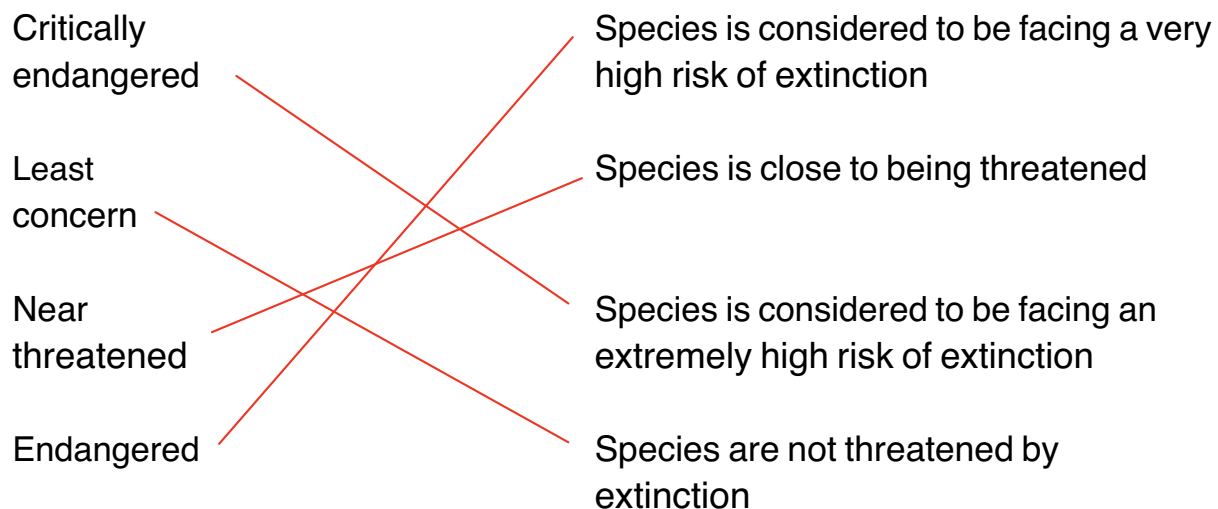herbivore (0.5)

0.5 mark for depth/extension

6. Describe what is meant by native and introduced. Provide examples of each. (3 marks)

Native - Species is originally from
that geographical area and is
a natural part of the ecosystem
(or similar) (1)
Introduced- The species is not from that area
but has been brought to that area by accident
or on purpose by humans (1)
Examples of each (0.5 each - any ecosystem)

7. Match the IUCN conservation status to the meaning using lines (2 marks)

Critically endangered   Species is considered to be facing a very high risk of extinction

Least concern   Species is close to being threatened

Near threatened   Species is considered to be facing an extremely high risk of extinction

Endangered   Species are not threatened by extinction

The rest of the questions relate to your Biokemon card species and the ecosystem your class focussed on.

8. What is the IUCN conservation rating of your organism? (1 mark)

Same as Biokemon card

9. Describe why your organism is important to your class' ecosystem (3 marks)

· Identifies role in ecosystem (1)
· Describes in depth the role (1)
, Mentions impact on another specific species (1)

10. Discuss one threat to your ecosystem and what could be done to mitigate (fix) that threat. (4 marks)

(1) Describes threat
(1) Describes how it impacts the ecosystem

(1) Identifies strategy
(1) Describes how strategy will help