



Science Year 7 2022

Task 3 – Classification Biology Test

Student Name: Answers

Teacher: _____

Section 1: Multiple Choice _____/ 10 marks

Section 2: Short Answer _____/ ~~30~~³¹ marks

Total: 41⁴⁴/ ~~40~~⁴¹ Marks %

Section One: Multiple choice

(10 marks)

Select the most correct answer

1. Out of these animals: cat, dog, bird, rabbit, which is the odd one out?

- ☒ a) Bird
- b) Cat
- c) Dog
- d) Rabbit

2. A vertebrate is an animal:

- a) that can fly
- b) that does not have a backbone
- c) that lives on land
- ☒ d) that has a backbone

3. Which of the following is not a member of the plant kingdom?

- a) trees
- b) grass
- c) moss
- ☒ d) algae

4. What are three defining features of mammals?

- a) they have hair, scales and feed milk to their young
- b) they have hair, lay eggs and are endothermic (warm-blooded)
- ☒ c) they have hair, are endothermic (warm-blooded) and feed milk to their young
- d) none of the above

5. Select the level of classification in which organisms are the most **similar**:

- a) Kingdom
- b) Genus
- c) Order
- ☒ d) Species

6. The scientific name comes from combining the:

- a) Family and species
- ☒ b) Genus and species
- c) Kingdom and phylum
- d) Genus and the name of the scientist who discovered it

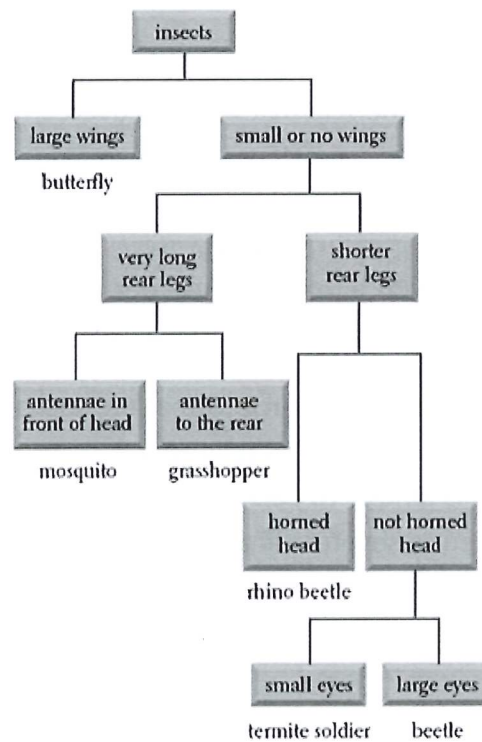
7. Which of the following is NOT a reason to use the scientific name of an organism, instead of the common name?

- a) The scientific name contains useful information, such as the genus name, which tells what other species this organism is related to.
- b) The scientific name is unique to each biological species, while the same common name may be applied to several different species.
- ☒ c) The scientific name is easier to remember and is commonly used in conversation.
- d) None of the above.

8. Which of the following characteristics will most likely be helpful in identifying a butterfly using a dichotomous key?

- a) Migrates North every Spring
- b) Hangs on branches
- c) Flutters wings fast on hot days
- ☒ d) Wings have long extensions

Questions 9 and 10 refer to the dichotomous key below



9. Which animal has the following features: small or no wings, long rear legs, and antennae to the front of their head

- a) Beetle
- b) Grasshopper
- ☒ c) Mosquito
- d) Termite soldier

10. Which of the following is a feature of a beetle

- a) Long rear legs and antennae
- b) Short rear legs and horned head
- c) Not horned head and small eyes
- ☒ d) Small or no wings and large eyes

Section Two: Short Answer

31
~~28~~
(25 marks)

11. Describe using four characteristics of living things why fungi are considered 'living'.
(4 marks)

- identifies 4 of MRS GREN (0.5 marks each)
- describes feature in fungi (0.5 marks per feature)

12. Write the missing levels of classification in the list below in the correct space. (2 marks)

Kingdom
Phylum
Class
Order
Family
Genus
Species

13. Compare and contrast the Kingdoms Protista and Monera

4
~~5~~ (5 marks)

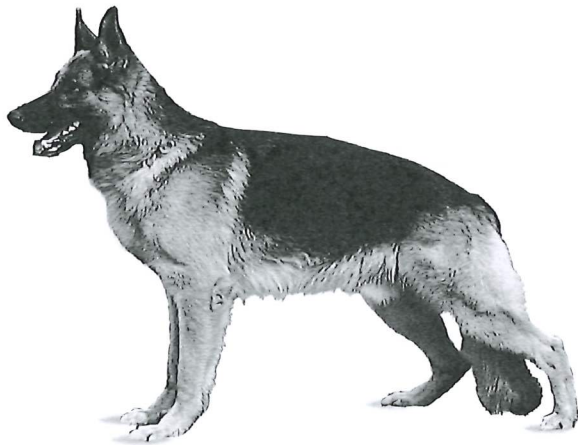
14. Tick which features belong to the three classes of vertebrates listed below. (3 marks)

Vertebrate	Warm blooded	Feed offspring milk	Undergo meta-morphis	Have a spinal cord
Reptiles				✓
Mammals	✓	✓		✓
Amphibian			✓	✓

0.5 each

15. Classify the following living things

A. Dog (1.5 marks)



Kingdom Animal

Phylum Chordata

Class Mammalia

B. Turtle (1.5 marks)



Kingdom Animal

Phylum Chordata

Class Reptile

C. Snail (1 mark)



Kingdom

Animalia

Phylum

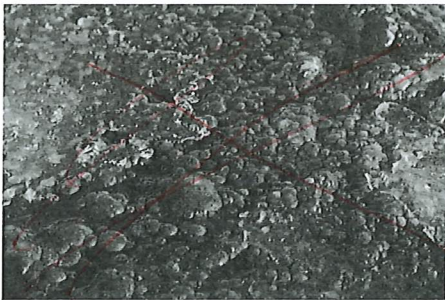
D. Wild mushroom (0.5 mark)



Kingdom

Fungi

~~Bacteria~~
E. Algae (0.5 marks)



Kingdom

~~Protist~~ Monera

16. A crocodile is a living thing. Can you describe why they are classified as below using their features.

(3 marks)

Kingdom: Animalia

Phylum: Chordata

Class: Reptile

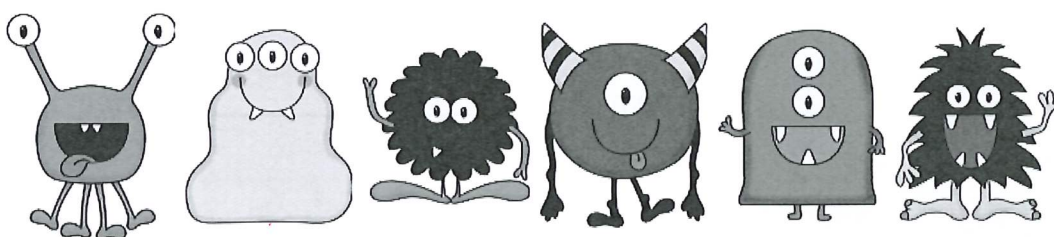
Animal: consumes food by ingestion (1)

Chordata: Has a backbone (1)

Reptile: Scales, lays eggs (1)

OR SIMILAR

17. Use the dichotomous key below to answer the questions



- 1 a. Mouth open go to 2
b. Mouth not open go to 4
- 2 a. Arms go to 3
b. No Arms *Alienus quadlegicus*
- 3 a. Hairy *Alienus hairicus*
b. Not hairy *Alienus tritoothicus*
- 4 a. No horns go to 5
b. Horns *Alienus stripicus*
- 5 a. No legs *Alienus blobicus*
b. Legs *Alienus fuzzicus*

a) What is the name of the yellow alien? *Alienus blobicus* (1 mark)

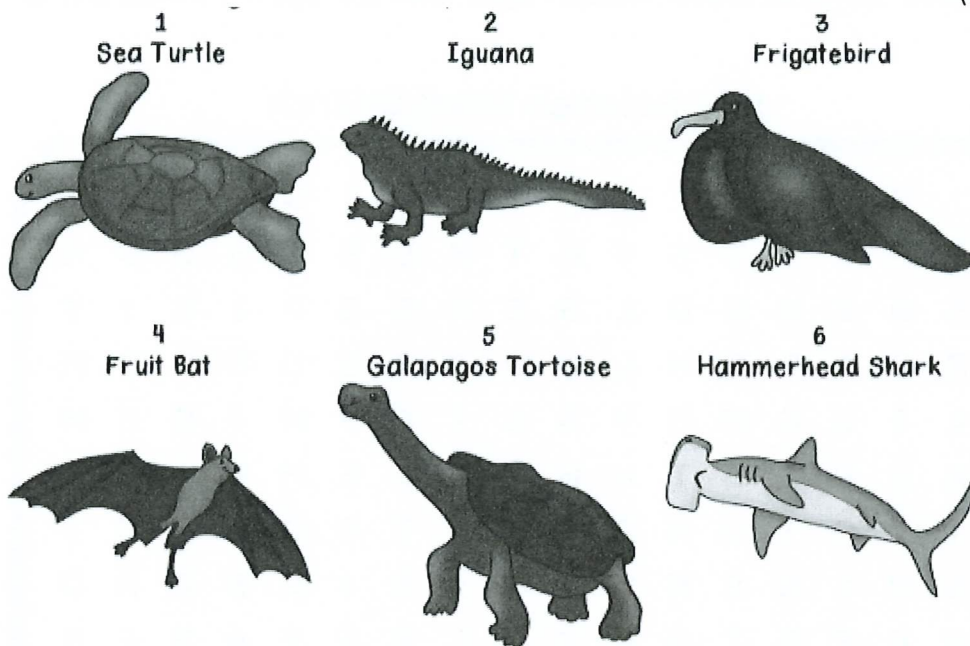
b) What are the features that are used to in the key determine the name of *Alienus stripicus*? (2 marks)

Horns, mouth not open

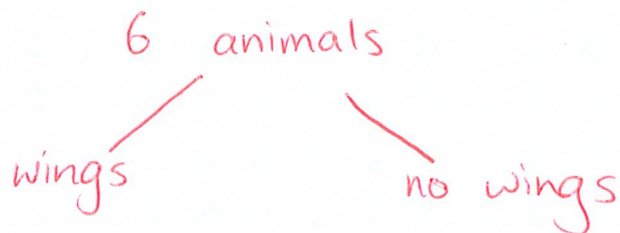
c) Look at the species name of each of the aliens. What is clearly used to help name the species? Provide an example in your response (2 marks)

Their physical characteristics (1)
eg. *Alienus quadlegicus* has 4 legs (1)

18. Create a **branching** dichotomous key for the animals below using **physical features only**.
(6 marks)



Draw your key in the space below:



- can identify each animal using the key (1 mark each)
- minus 1 mark for the following:
 - uses something other than physical characteristic
 - messy
 - wrong type of key
 - more than two branches per level

End of Test

Finished? Check all of your answers again, then attempt this wordsearch ☺

Life Science Word Search



Allele

Antigen

Bacteria

Biology

Biome

Cell

Chitin

Chlorophyll

Chromosome

Cytoplasm

Ecosystem

Genotype

Homeostasis

Hormone

Metabolism

Mitosis

Nucleus

Osmosis

Pathogen

Phagocytosis

Photosynthesis

Plankton

Respiration

Species

Symbiosis

Tissue

Vacuole

Virus

Xylem

Zygote