

## Studentsworksheets.com

### Topics Covered:

- Characteristics of Living Organisms
- Concept & Uses of Classification Systems
- Features of Organisms

/ Mark 14

1. Which statement applies to a dicotyledonous plant?

- A. The leaf veins are reticulated.
- B. Each flower has six petals.
- C. The flowers are wind-pollinated.
- D. The leaves have parallel veins.

2. The diagram below illustrates processes carried out by living organisms.

Light Energy	Oxygen from Atmosphere	Carbon Dioxide to Atmosphere
Green Plant	Rabbit	Waste Products

Which row in the table correctly describes the characteristics shown?

	W	X	Y
A	Respiration	Photosynthesis	Respiration
B	Respiration	Respiration	Nutrition
C	Photosynthesis	Respiration	Excretion
D	Photosynthesis	Excretion	Nutrition

3. The image below shows a domestic cat, whose scientific name is *Felis catus*.

Which genus does it belong to?

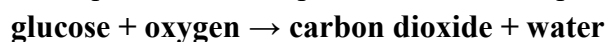
- A. Mammal
- B. *catus*
- C. *Felis*
- D. Carnivore



4. Which of the following are characteristics of birds?

Skin covered in feathers	Maintain constant body temperature	Lay jelly-covered eggs	External ears present
A. ✓	X	✓	X
B. X	X	X	✓
C. ✓	✓	X	X
D. X	✓	✓	✓

5. The equation below represents a chemical process in living organisms:



Which characteristics of living organisms does this equation represent?

	Nutrition	Respiration
A	✓	✓
B	X	✓
C	X	X
D	✓	X

6. The list below shows the binomial names of eight animals:

- i. Canis lupus
- ii. Cygnus buccinator
- iii. Dasypus novemcinctus
- iv. Dasyurus maculatus
- v. Equus burchelli
- vi. Eumetopias jubatus
- vii. Felis chaus
- viii. Felis lybica

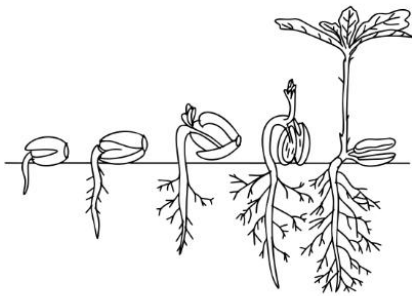
Which two animals are most closely related?

- A. Dasypus novemcinctus & Dasyurus maculatus
- B. Felis chaus & Felis lybica
- C. Cygnus buccinator & Dasyurus maculatus
- D. Equus burchelli & Eumetopias jubatus

7. Which of the following is **not** a characteristic of all living organisms?

- A. Reproduction
- B. Respiration
- C. Excretion
- D. Photosynthesis

8. The image below shows the stages of seed germination in well-watered soil.



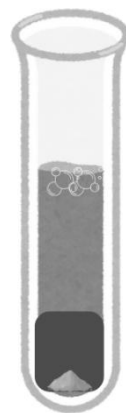
Which characteristics of living organisms are demonstrated in this process?

- A. Nutrition and reproduction
- B. Reproduction and growth
- C. Nutrition and sensitivity
- D. Sensitivity and growth

9. A mixture of yeast (*Saccharomyces cerevisiae*), glucose, and water is placed in a test tube. After one hour, bubbles of gas are observed.

Which process causes this change?

- A. Reproduction
- B. Respiration
- C. Growth
- D. Sensitivity



10. Which class of vertebrates typically lays eggs with hard shells?
- A. Mammals
  - B. Birds
  - C. Amphibians
  - D. Reptiles
11. What term describes a group of organisms with similar morphological features that can reproduce to produce fertile offspring?
- A. Kingdom
  - B. Genus
  - C. Family
  - D. Species
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**Answers:**

- 1. A. The leaf veins are reticulated.
- 2. C. Photosynthesis | Respiration | Excretion
- 3. C. *Felis*
- 4. C. ✓ | ✓ | X | X
- 5. B. X | ✓
- 6. B. *Felis chaus* & *Felis lybica*
- 7. D. Photosynthesis
- 8. D. Sensitivity and growth
- 9. B. Respiration
- 10. B. Birds
- 11. D. Species