Applied Practice

Taxonomy and Classification

STAAR Biology EOC

RESOURCE GUIDE

Volume 6

Printed in the United States of America.

APPLIED PRACTICE
Resource Guide
Taxonomy and Classification
STAAR Biology EOC

Teacher Notes and Resources

Student Practices

Answer Key and Explanations

Student Progress

Choose the best answer to each question.

1 Classification is a method of scientific taxonomy that involves grouping organisms by —

A common names

B shared characteristics

C learned behaviors

D coloration

---

2 The science of taxonomy involves all of the following except —

F identifying new organisms

G describing new organisms

H naming new organisms

J breeding new organisms

---

3 Which of the following is a limitation in using common names of organisms for classification purposes?

A Common names are often too short to identify an organism.

B Not all organisms have a common name.

C Common names often differ from one country to another.

D None of the above

4 Which of the following combinations of taxa is used in assigning a binomial name to a population of similar organisms?

F Genus and species

G Family and genus

H Kingdom and species

J Phylum and class

---

5 Which of the following is not a reason for having a standardized taxonomic system?

A There is a standardized system for naming new organisms.

B Using a standardized taxonomic system allows scientist around the world to easily share their discoveries.

C A standardized taxonomic system provides a roadmap for grouping and classifying newly discovered organisms.

D Standardized taxonomic systems allow scientists to make more money from their discoveries.

---

6 Which of the following is not true of the standardized binomial nomenclature used to name organisms?

F A Latin word or Latinized form of a word is used for each name.

G The second name of the organism is not capitalized and corresponds to the organism's kingdom.

H The first name of the organism is capitalized and corresponds to the organism's genus.

J The binomial name is italicized when printed.

7 Which of the following is a correctly written scientific binomial?

A *Homo Sapiens*

B *homo sapiens*

C *Homo sapiens*

D *homo Sapiens*

---

8 The modern classification hierarchy includes taxonomic levels that —

F increase in specificity and decrease in the number of organisms in each successive level

G increase in specificity and increase in the number of organism in each successive level

H decrease in specificity and decrease in the number of organism in each successive level

J decrease in specificity and increase in the number of organisms in each successive level

---

9 The most specific and least inclusive taxonomic group is —

A kingdom

B class

C species

D order