

4th Grade Science Review  
11/28/2004

Student Name: \_\_\_\_\_

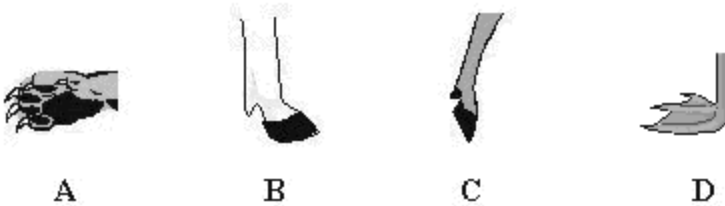
Class: \_\_\_\_\_

Date: \_\_\_\_\_

Instructions: **Read each question carefully and circle the correct answer.**

1. The snowshoe hare lives in the cold north. During the summer months, the hare has brown fur, but during the snowy winter months, its fur changes to white. How does the ability to change fur color help the snowshoe hare?
- A. It helps keep the hare warm.
  - B. It helps hide the hare from wolves.
  - C. It helps the hare run faster over the snow.
  - D. It helps the hare find food.

2. Which picture shows the foot of an animal that hunts other animals for food?



- A. A
  - B. B
  - C. C
  - D. D
3. Fill in the blank.

A flounder is a type of fish. The flounder can change its color to match the surroundings. If a shark approaches, the flounder lays still, blending into the sandy ocean bottom. This is known as \_\_\_\_\_.

- A. camouflage
- B. hibernation
- C. migration
- D. communication

4. A crane has feet with toes that are spread out. Spread-out toes help the crane keep its balance and keep it from sinking into the mud. Where does a crane hunt for food?



- A. in shallow water
  - B. in the forest
  - C. in the middle of the ocean
  - D. in the meadow
5. Which animal is NOT an arthropod?
- A. cockroach
  - B. scorpion
  - C. snail
  - D. crab

6. Fill in the blank.

Spiders, ticks, mites, and scorpions are all arachnids because they all have \_\_\_\_\_.

- A. internal skeletons
  - B. eight legs
  - C. chewing mouth parts
  - D. furry bodies
7. Fill in the blank.

Beetles, grasshoppers, bees, and ants are all \_\_\_\_\_.

- A. arachnids
- B. insects
- C. crustaceans
- D. mammals

8. Fill in the blank.

Crustaceans and arachnids are both \_\_\_\_\_ .

- A. spiders
- B. amphibians
- C. arthropods
- D. insects

9. Solve this riddle.

I am a mammal.  
I eat insects or fruit.  
I can fly.

What am I?

- A. hawk
- B. robin
- C. bat
- D. hummingbird

10. What characteristic do birds and mice share?

- A. They both lay eggs.
- B. They both use the sun's energy to make food.
- C. They both are warm-blooded.
- D. They both breathe with gills.

11. What do all birds have in common?

- A. They have wings, feathers, and are cold-blooded.
- B. They have wings, feathers, and are warm-blooded.
- C. They have wings, feathers, and gills.
- D. They have wings, feathers, and talons.

12. Fill in the blank.

A human is a/an \_\_\_\_\_.

- A. reptile
- B. amphibian
- C. insect
- D. mammal

13. Solve the riddle.

I have scales.  
I am cold-blooded.  
I use my legs to move.

What am I?

- A. an amphibian
- B. a reptile
- C. a fish
- D. a mammal

14. Fill in the blank.

Fish breathe using \_\_\_\_\_.

- A. a blowhole
- B. gills
- C. lungs
- D. their skin

15. Fill in the blank.

Reptiles breathe using \_\_\_\_\_.

- A. gills
- B. lungs
- C. their skin
- D. transpiration

16. What is the same about all amphibians?

- A. They spend part of their lives in water and part on land.
- B. They are called tadpoles as adults.
- C. They hatched from a leathery-shelled egg.
- D. They breathe through gills as adults.

17. Which one of these animals is an invertebrate?



- A. A
- B. B
- C. C
- D. D

18. Which is the best way to categorize vertebrates?

- A. scaly skin or shelled
- B. have fins or have legs
- C. cold-blooded or warm-blooded
- D. backbone or no backbone

19. Which of the following is true about all invertebrates?

- A. They have shells.
- B. They are warm-blooded.
- C. They do NOT have backbones.
- D. They do NOT live in the ocean.

20. Fill in the blank.

All vertebrates have \_\_\_\_\_.

- A. warm blood
- B. a backbone
- C. an exoskeleton
- D. body hair

21. Fill in the blank.

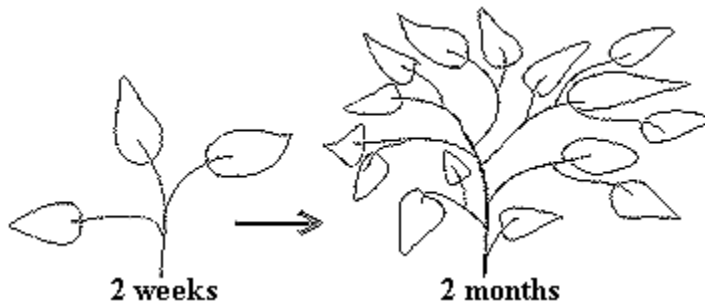
When an animal grows, it \_\_\_\_\_.

- A. gets smaller and may change color
- B. will not change
- C. gets larger and may change color
- D. will lay eggs

22. Which of these living things does NOT come from an egg?

- A. a fish
- B. an apple tree
- C. an ostrich
- D. a spider

23. How has this plant changed over time?



- A. It grew flowers.
- B. The stem got thinner and the roots got shorter.
- C. It became shorter and lost leaves.
- D. It became taller and grew more leaves.

24. Put the pictures in order to show how a chicken grows.



- A. 1 - 2 - 3 - 4
- B. 2 - 3 - 4 - 1
- C. 3 - 4 - 2 - 1
- D. 3 - 1 - 4 - 2

25. Fill in the blank.

Butterflies go through a larval and pupal stage before becoming butterflies. This type of change is called \_\_\_\_\_.

- A. metamorphosis
- B. photosynthesis
- C. transformation
- D. camouflage

26. What changes when a tadpole becomes an adult frog?

- A. eyes and ears form
- B. lungs and legs form
- C. fins and scales grow larger
- D. eggs hatch and larvae come out

27. Fill in the blank.

An amphibian lays its eggs \_\_\_\_\_.

- A. on land
- B. in other animals' nests
- C. in water
- D. encased in a leathery shell

28. Solve the riddle.

I am a young insect.  
I can move around, but not very much.  
I look a lot like a worm.

What am I?

- A. a tadpole
- B. a larva
- C. a pupa
- D. an egg

29. Fill in the blank.

Deoxyribonucleic acid is \_\_\_\_\_.

- A. genetic material
- B. the end result of mitosis
- C. produced by RNA
- D. the structure that connects chromosomes

30. Fill in the blank.

\_\_\_\_\_ are composed of strands of DNA, come in pairs, and contain hundreds of genes.

- A. Chromosomes
- B. Traits
- C. Cells
- D. Enzymes

31. Fill in the blank.

DNA stand for \_\_\_\_\_ .

- A. detronuclear acetone
- B. denatured alcohol
- C. deoxyribonucleic acid
- D. dinitrogen aldehyde

32. Fill in the blank.

Segments of DNA are called \_\_\_\_\_.

- A. mutations
- B. RNA
- C. traits
- D. genes

33. "Extinct" means there is no more of a particular plant or animal anywhere in the world. What might be one reason that an animal becomes extinct?

- A. There is too much food available for them.
- B. Their habitat is taken or changed by humans.
- C. They have enough room to live in.
- D. The environment is correct for them.

34. Dinosaurs are one example of living things that are now extinct. How long ago did dinosaurs live on earth?
- A. fifty years ago
  - B. hundreds of years ago
  - C. thousands of years ago
  - D. millions of years ago
35. If the plants in a habitat become extinct, what is also in danger of becoming extinct?
- A. water
  - B. sunlight
  - C. soil
  - D. animals
36. Which of the following could cause a **mass extinction**?
- A. the conservation of resources
  - B. the seasons changing
  - C. a comet hitting the earth
  - D. a new predator moving into a forest
37. Which of the following is a trait a plant gets from its parent?
- A. its flower color
  - B. the amount of light it gets
  - C. where it is growing
  - D. what animals use it for food
38. Fill in the blank.
- A living thing's baby \_\_\_\_\_ .
- A. looks like its parents
  - B. is always male
  - C. cannot have its own babies
  - D. will be bigger than its parents

39. Fill in the blank.

How tall you are is an example of \_\_\_\_\_.

- A. an inherited trait
- B. camouflage
- C. a learned behavior
- D. mimicry

40. Which of the following is a trait that you get from your parents without having to learn it?

- A. riding a bicycle
- B. swimming
- C. brushing your hair
- D. eye color

41. What could be said about an organism that CANNOT meet its needs within an ecosystem?

- A. It will produce more offspring.
- B. It will become an herbivore.
- C. It may become extinct.
- D. It may change its coloring.

42. Fill in the blank.

The fossil record demonstrates that many living things share a common ancestry and \_\_\_\_\_.

- A. have changed over time
- B. are predators
- C. will become extinct
- D. evolved from the dinosaurs

43. Which scientist is credited with the theory of natural selection?

- A. Aristotle
- B. Darwin
- C. Freud
- D. Linnaeus

- 44.** A tiger is born with white fur instead of fur that is brownish-orange with black stripes. How could this affect the tiger?
- A.** It probably wouldn't affect the tiger at all.
  - B.** A lack of camouflage could make capturing prey more difficult.
  - C.** A lack of stripes could help the tiger be warmer.
  - D.** A lack of camouflage could allow the tiger to get more prey.