

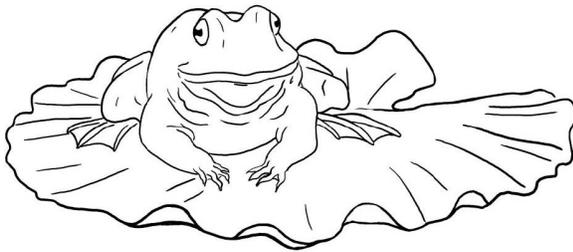
## CISD Grade 5 Science Unit 11

Some questions (c) 2012 by CSCOPE.

1 When lightning strikes in the open prairies of North America, widespread fires can quickly consume the brown, dry grasses. Small burrowing animals have advantages over larger ones. This is because they —

- A outrun larger animals
- B can dig below ground level and remain there until the flames pass
- C feast on small insects escaping from the fires
- D have a large supply of water stored in their bodies to last through the fire

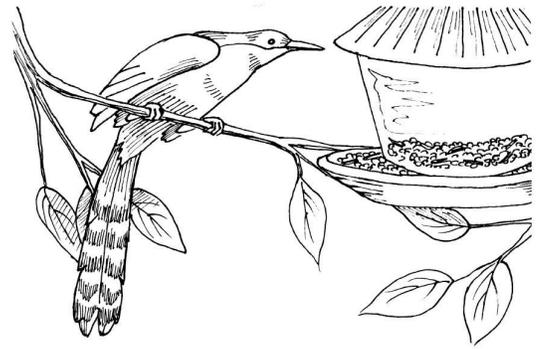
2



Bullfrogs are a type of amphibian that live in wet habitats. Which of the following is **MOST LIKELY** a learned behavior of bullfrogs?

- F jumping when frightened
- G laying eggs in water
- H avoiding poisonous insects
- J swimming underwater

3



Which inherited trait does this bird **MOST LIKELY** share with its parents?

- A eating from bird feeders
- B flying to search for food
- C having long tail feathers
- D building nests in trees

<b>4</b>	<b>Animal 1</b>	<b>Animal 2</b>	<b>Animal 3</b>	<b>Animal 4</b>
	oil-coated feathers	migrates by flying	superior tunneling ability	membrane wings
	migrates by swimming	hollow bones	large, black trimmed eyes	uses sonar-like echolocation to find food
	solid bones	large wingspan	thick, velvety fur	soft, short fur
	streamlined body	four-chambered heart	pointed snout	insectivores

Which animal is best adapted for flying at night?

- F** Animal 1
- G** Animal 2
- H** Animal 3
- J** Animal 4

**5** A(n) \_\_\_\_\_ trait or characteristic of an organism is a result of its genetics and is passed on from its parents.

- A** learned
- B** survival
- C** inherited
- D** practiced

**6** Which of the following characteristics could a tulip's offspring inherit?

- F** root-eating insects
- G** wind-damaged flowers
- H** red flowers with six petals
- J** stems wilting from lack of rain

**7** Joe put a deer feeder on his 180-acre ranch in the Texas Hill Country. The feeder is 12' tall, battery powered and light sensitive. It automatically scatters corn from a dispenser at dawn and dusk. Joe saw small, muddy footprints on the dispenser and knew that raccoons were climbing up the supports of the feeder and reaching their tiny hands in the dispenser to get corn. This behavior of raccoons —

- A** is inherited
- B** is unique only to these raccoons
- C** is learned
- D** happened only one time

**8** Which group contains only inherited traits?

- F** hair  
texture  
throwing a baseball  
reading  
weight
- G** length of hair  
ability to swim  
lung capacity  
clarity of vision
- H** baldness  
right-handedness  
food preference  
balance
- J** hair color  
eye color  
height  
shape of nose

**9**



Many rainforest animals are nocturnal and eat fruits, nuts, and berries. Which of the following is most likely a learned trait for these animals?

- A** being nocturnal
- B** knowing where to find fruits
- C** having a strong sense of smell
- D** taking care of their young

- 10** Jason has red hair, freckles, and blue eyes. His favorite color is blue. He and his dad eat pizza together and both enjoy learning about stars. Jason put constellations on his bedroom ceiling after his dad painted it dark blue. They also watch the NASA channel together. In his free time, Jason rides his bike and enjoys reading science fiction.

<b>I</b>	reads science fiction, likes pizza, has red hair
<b>II</b>	has blue eyes, freckles, red hair
<b>III</b>	rides his bike, reads science fiction, eats pizza with dad
<b>IV</b>	favorite color is blue, studies stars with dad, has freckles

Which list represents Jason's learned behaviors only?

- F** I
- G** II
- H** III
- J** IV

Use the excerpt below to answer the following three question.

### The Roadrunner

The roadrunner is the largest bird in the cuckoo family. This bird has dark feathers streaked with white; a long, upward-pointing tail; a crest of feathers topping its head, and four toes—two that face forward and two facing backward. A roadrunner also has a patch of blue and orange skin behind a pair of bright yellow eyes.

Of course, roadrunners are fast on their feet, running from 15 to 18 mph. Although they are able to fly, they prefer to run and use their speed to catch lizards, small birds, snakes, small mammals, and insects. Their swiftness also enables them to escape predators. Their natural predators include coyotes, skunks, and hawks.

Roadrunners live primarily in deserts. In the United States, they are found across the Southwestern states from California to Texas and Arkansas. Because they do not migrate to cooler climates, they have several ways to deal with the heat in order to avoid dehydration. They are able to lower their body temperature at night to 94° F from a daytime body temperature of 101° F. To help store water, they eliminate salt through glands in their noses instead of through their urine. They rest in the shade during the heat of the day and warm up in the morning by turning their backs to the sun and fluffing their feathers to expose their black skin to the sun's rays.

Roadrunners mate once or twice a year, depending on the amount of rainfall in the area. They build their nests above ground and lay between 2-8 eggs, which take about 20 days to hatch.

- 11** Which behavior of humans is similar to the roadrunner's behavior of excreting salt through the nose?
- A** running fast in soccer
  - B** squinting in bright sunlight
  - C** shivering in cold weather
  - D** sweating to cool off

**12** According to the information above, which diagram most likely represents the feet of birds in the cuckoo family?



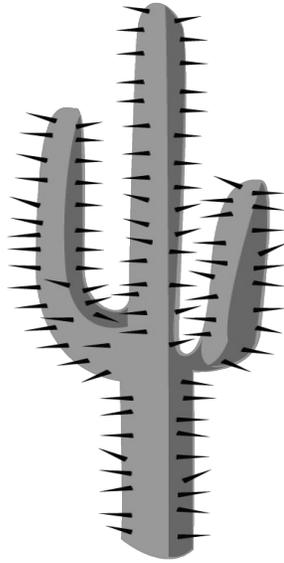
**13**

I	II	III	IV
nose glands	speedy	yellow eyes	nests above ground
black skin	streaked feathers	opposite-facing toes	retreats to shade in daytime
ability to change body temperature	ability to run or fly	diet of insects, small mammals	yearly migration to cooler climates

Which column lists the adaptations of roadrunners that help them to survive extreme temperatures?

- A** I
- B** II
- C** III
- D** IV

**14** Like animals, plants can have inherited traits.



- Identify an inherited trait of the cactus shown above.

-Explain how you know the trait you identified is inherited.

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A large empty rectangular area defined by a horizontal line at the top and a vertical line on the left, intended for the student to write their answer.