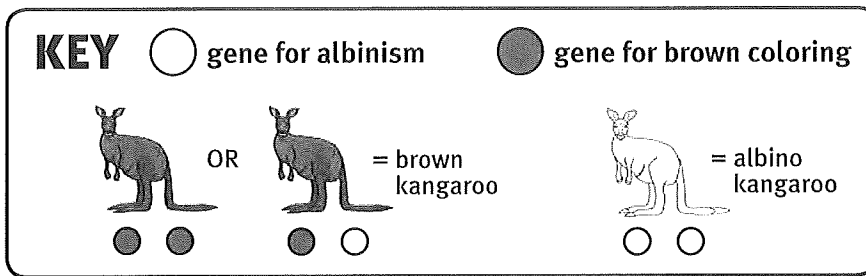


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All in the Family

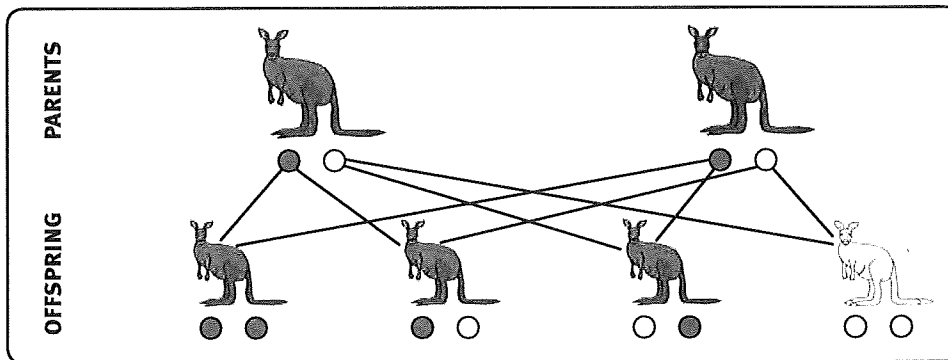
In “Colorless Creatures” (pp. 10-13), you read about albinism in animals. An albino animal has inherited two copies of the gene for albinism, one gene from each parent.

The following diagrams show how genes for albinism can be passed from parents to their offspring. Use the diagrams to answer the questions. You can refer to the “Passing Down Albinism” sidebar on page 13 of the magazine for another example.



Family A

Two kangaroo parents have typical brown coloring. Both parents have one gene for typical coloring and one for albinism. This diagram shows the coloring that the offspring could inherit from their parents.



Compare and contrast the coloring of the kangaroo parents with the coloring of their offspring.

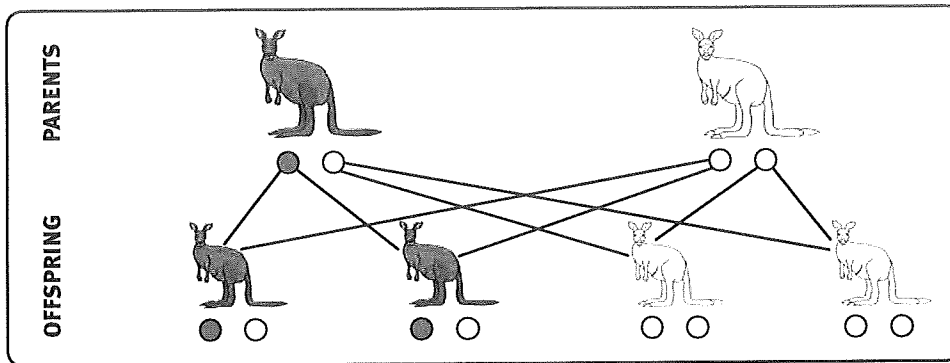
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Name: _____ Date: _____

All in the Family (cont'd.)

Family B

One kangaroo parent has typical coloring and the other parent has albinism. The parent with typical coloring has one gene for typical coloring and one for albinism. The parent with albinism has two genes for albinism. This diagram shows the coloring that the offspring could inherit from their parents.



Compare and contrast the coloring of the kangaroo parents with the coloring of their offspring.

Conclusions

1. Which set of kangaroo parents, those in Family A or Family B, are less likely to pass albinism to their offspring? Support your answer with evidence from the article and the diagrams.

2. Which family has offspring with coloring most like their parents? Support your answer with evidence from the diagram.

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SuperScience

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Think It Through

Use the article “Colorless Creatures” (pp. 10-13) to answer each question.

1. Explain what scientist Murray Brilliant means when he says, “There are many naturally white animals that aren’t albino?”

2. How does melanin benefit animals? Use details from the article to support your response.

3. Could an animal develop albinism later in life? Use details from the article to support your response.

4. Which sentence from the article best supports the conclusion that wild albino animals can have a challenging life?

- (A) “Albinism is rare in both animals and people.”
 (B) “[Genes] carry information that determines many traits.”
 (C) “Albino animals can also have babies that produce pigment normally.”
 (D) “Their poor vision makes it hard for them to find food.”

5. What is the main idea of the article? How do the images in the article support the main idea?

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No-Sweat Bubble Test

Use the article “Speed Racer” (pp. 14-15) to determine the best answer for each question.

- Aurora Straus’s dad took her to an empty racetrack to practice controlling a skidding car. Which word is a synonym for *skidding*?
 - roaring
 - fast
 - exploding
 - sliding
- Straus says, “The scariest part of every race is before you turn the car on.” What can you conclude from this statement?
 - Straus doesn’t want to race anymore.
 - Straus is afraid that her car won’t start.
 - Straus gets nervous while she waits.
 - Straus is fearful of loud engine noise.
- Which statement best explains how understanding forces helps Straus succeed in racing?
 - It helps her calm her fears of racing.
 - She knows how other drivers prepare for races.
 - It helps her know how to control her car as she drives on the track.
 - She is able to design fun racetracks.
- Which of the following is an example of acceleration?
 - waiting for the race to start
 - starting the car’s engine
 - working together to design a race car
 - speeding up to pass another car
- How does the side bar “A Winning Design” support the information in the article?
 - It describes a race car’s design and why different aspects are important.
 - It shows the safety features of a race car.
 - It shows the top speed of a race car.
 - All of the above
- Which feature on a race car uses air to push the back of the car down?
 - engine
 - tires
 - spoiler
 - windows
- If you push a ball forward on a flat surface, it will roll forward for a while before stopping. It stops because of _____.
 - gravity
 - acceleration
 - speed
 - friction
- Which statement best explains why the last section of the article is called “Girl Power”?
 - It is about what powers race cars driven by girls.
 - It describes other female race car drivers.
 - It is about how Straus works to empower young girls.
 - All of the above
- Which statement explains why Straus started the nonprofit organization Girls With Drive?
 - She wanted to support girls who were interested in racing cars.
 - She wanted to inspire girls to pursue careers in areas where there aren’t a lot of women.
 - She wanted a break from racing cars.
 - She wanted to support the Girl Scouts.
- Which statement is most important to include in a summary of the article?
 - Understanding forces and motion help Aurora Straus excel at racing.
 - Girl Scouts visited Aurora Straus at a racetrack.
 - When a car accelerates, it gains speed.
 - Race cars have a streamlined shape that helps them go faster.