

TAKE FLIGHT WITH

ILLUMINATION PRESENTS

MIGRATION

TRIVIA CHALLENGE!

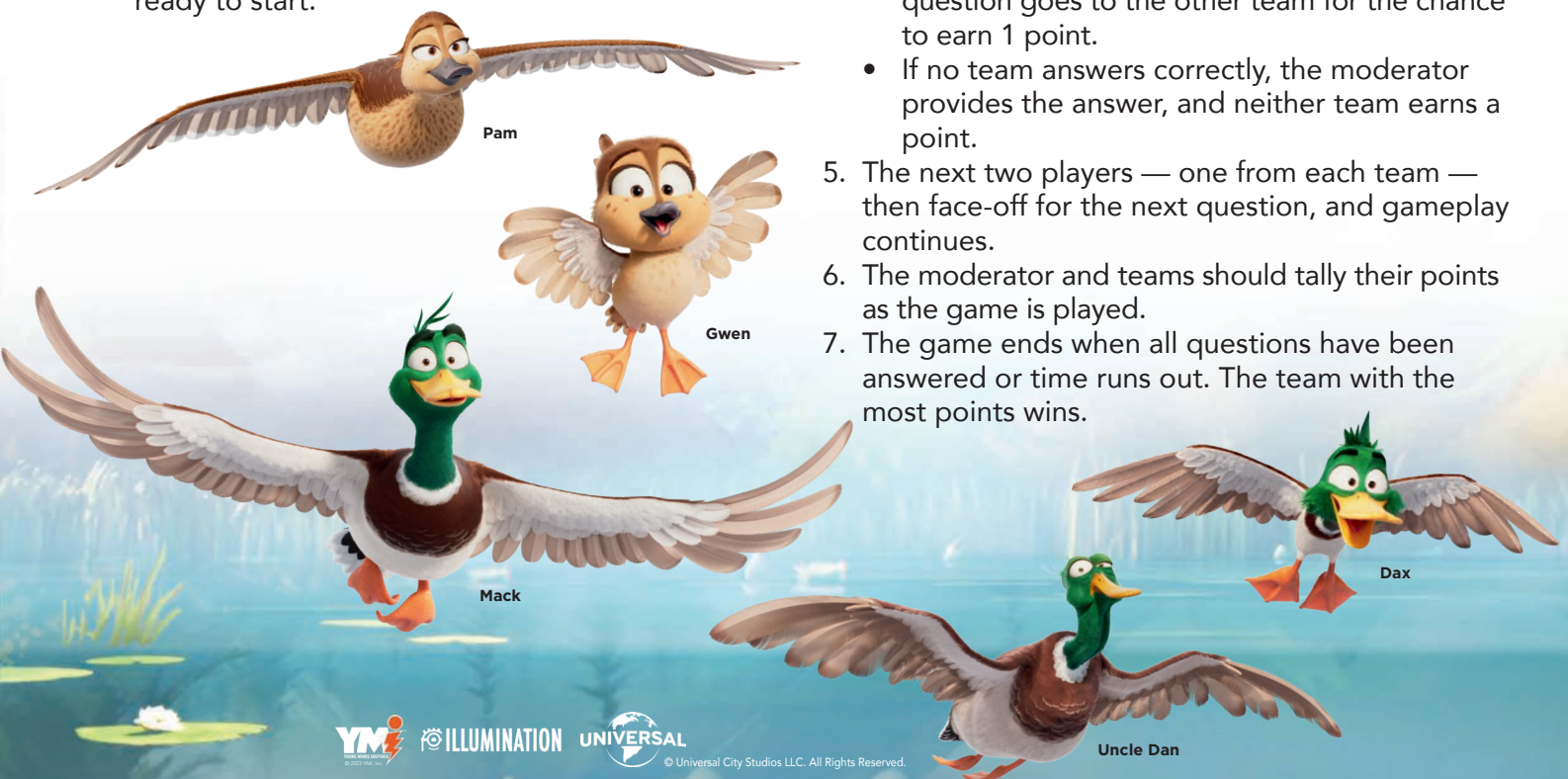
TEACHER INSTRUCTIONS

Challenge Set-Up

1. The trivia game is best played after students have completed the program activities; however, it may be played at any time throughout the unit. It is designed for grades 4-6 but may be played by younger students with adult assistance.
2. Review the directions and the list of questions and answers before you begin the game.
3. Explain that students will be playing a trivia game that tests their knowledge of facts about birds, migration, geography, and math.
4. Group students into two teams.
5. Determine who will be the moderator and read the clues and keep score. It might be you or a student.
6. Arrange two desks facing each other where two players will stand to answer a question, tapping on the desk to signal when they know an answer. The moderator should stand or sit facing the two players.
7. Explain game-play directions to students when ready to start.

How to Play – Game-Play Directions

1. The moderator will select a category.
2. A student from Team 1 and a student from Team 2 will “face-off” to strive to be the first to answer a question read by the moderator correctly.
3. The moderator will read the first question from the selected category.
4. When one of the students facing-off knows the answer, they tap the top of their desk to “buzz in” or signal that they are ready to answer, and then provide their answer.
 - If the answer is correct, their team earns 1 point.
 - If the answer is incorrect, the student from the opposing team in the face-off can provide an answer for the chance to earn 1 point for their team.
 - If neither player gets the correct answer, the question is posed to the teams. The team of the first student who buzzed in gets to try to answer first. If they get the correct answer, they earn 1 point. If they don't get the correct answer, the question goes to the other team for the chance to earn 1 point.
 - If no team answers correctly, the moderator provides the answer, and neither team earns a point.
5. The next two players — one from each team — then face-off for the next question, and gameplay continues.
6. The moderator and teams should tally their points as the game is played.
7. The game ends when all questions have been answered or time runs out. The team with the most points wins.



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CATEGORY

MIGRATION FILM TRIVIA

(Movie Fun Facts)

Question 1: The Mallards have lived their whole lives at a pond in the northeast region of the United States. Consisting of six states, what is this region called?

Answer 1: New England

Question 2: The Mallard Family makes a stop in New York City. What famous landmark that was a gift from France could they get a bird's eye view of on their journey?

Answer 2: The Statue of Liberty

Question 3: The Mallard Family has some very close calls while flying through New York City. Lucky for them, these streetwise birds found in large numbers in cities around the world have their backs.

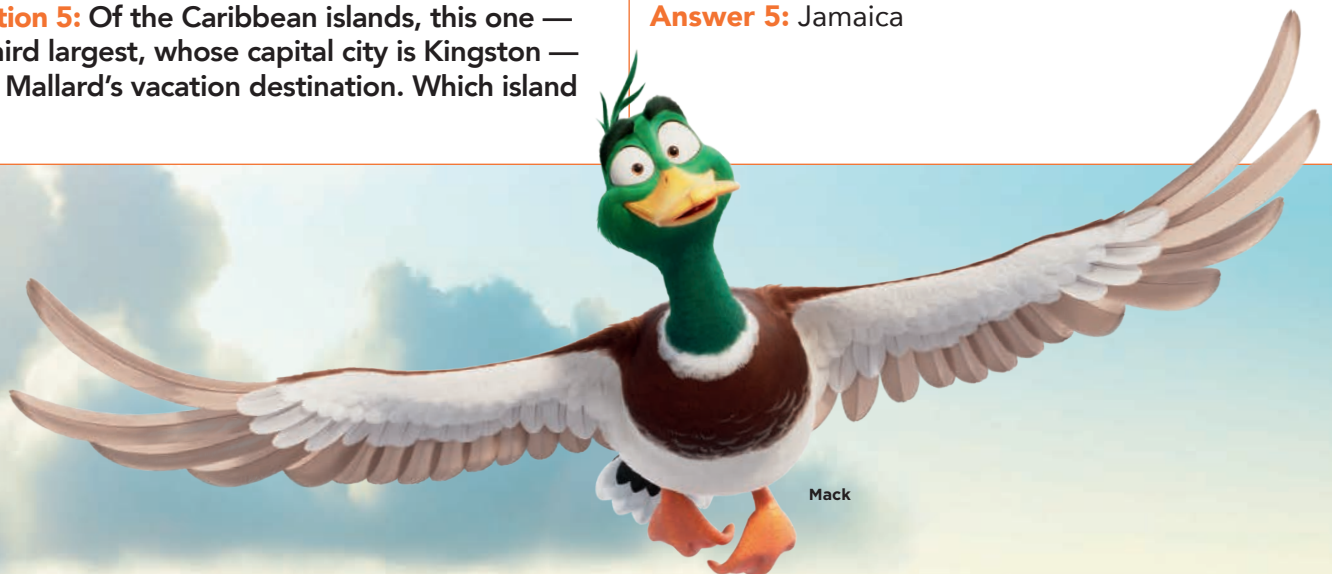
Answer 3: Pigeons

Question 4: Which of the following birds featured in *Migration* do NOT migrate: Mallards, pigeons, herons, red and blue macaws.

Answer 4: Pigeons and red and blue macaws

Question 5: Of the Caribbean islands, this one — the third largest, whose capital city is Kingston — is the Mallard's vacation destination. Which island is it?

Answer 5: Jamaica



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CATEGORY

LET'S FLY!

(Migration Facts)

Question 1: In which direction do migrating birds fly for the winter?

Answer 1: South

Question 2: There are four major flyways for bird migration. Name two of them.

Answer 2: Atlantic, Central, Mississippi, and Pacific

Question 3: Which flyway, named for the ocean that borders the east coast of the U.S., do the Mallards take on their way to Jamaica?

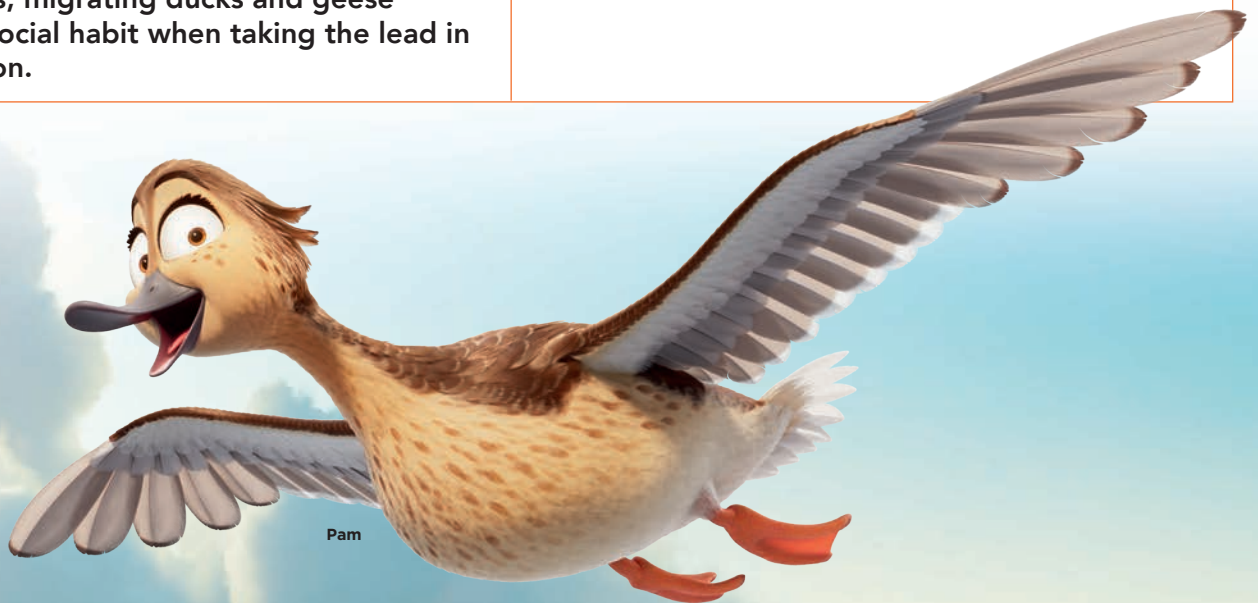
Answer 3: Atlantic Flyway

Question 4: Pam is overwhelmed by the beauty of migrating birds flying over the pond. She notices how they cooperate to coordinate this formation. What is the name of the formation?

Answer 4: V-formation

Question 5: Like a skill that humans learn by playing games, migrating ducks and geese practice this social habit when taking the lead in the V-formation.

Answer 5: They take turns.



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CATEGORY

MALLARDS 101

(Migration Facts)

Question 1: Mallards don't dive under water for food. Instead, they do this.

Answer 1: Mallards *dabble*, or tip their heads forward into water, while pointing their tails in the air.

Question 2: Mack, Pam, Dax, Gwen, and Uncle Dan are the names we call the Mallard Family in *Migration*. What are the scientific names for male and female mallards?

Answer 2: Drakes (male); Hens (female)

Question 3: You would think this would be unpleasant for hens (female mallard ducks) when they make a nest for their eggs, but it does not hurt them. They do it instinctively to line the nest and make it soft for their ducklings.

Answer 3: Pluck some of their own feathers which they then use to line the nest.

Question 4: Which mallard makes the quacking sound – male or female?

Answer 4: Female mallards

Question 5: What distinctive feather marking can help you tell the difference between Pam and Mack Mallard, or between female and male mallards?

Answer 5: Mack (a drake) has a bright green feathered head and Pam (a hen) has a brown feathered head.



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BY THE NUMBERS

(Migration Math)

Question 1: Migrating birds fly at this range of speed, which is similar to the speed humans travel in cars.

Answer 1: 15 to 55 miles per hour (mph)

Question 2: If the Mallards fly at 50 mph, how many miles will they travel in 3 hours?

Answer 2: $50 \times 3 = 150$ miles

Question 3: Mallards swim between 4-6 mph. How long would it take for Dax to swim 18 miles at top speed?

Answer 3: $18 \div 6$ (top speed) = 3 hours

Question 4: Mack, Pam, Dax, Gwen, and Uncle Dan aren't always alone on their migration vacation. If there is 1 flock of 20 snow geese, 1 flock of 100 warblers, and 1 flock of 300 piping plovers, how many other birds in total are flying with them?

Answer 4: $20 + 100 + 300 = 420$ migrating birds

Question 5: How many total ounces of food will Dax consume if he eats the following? 2 aquatic plant roots (0.3 oz each), 1 worm (0.7 oz) and 5 berries (0.5 oz).

Answer 5: 1.8 ounces of food ($0.6 \text{ oz} + 0.7 \text{ oz} + 0.5 \text{ oz} = 1.8 \text{ oz}$)



Gwen

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CATEGORY

TOGETHER WE CAN

(Help Birds)

Question 1: Colliding into windows of homes and buildings is a hazard birds face. What is one thing people can do to help prevent these collisions and save energy too?

Answer 1: Turn off lights at night.

Question 2: If you visit the beach during migration season with your dog, what should you do to keep nesting birds safe?

Answer 2: Keep your dog on a leash so that it doesn't chase nesting birds or eat their eggs.

Question 3: Uh-oh! If you leave this pet outside on a beautiful fall day, it might pounce on migrating birds. Remember to keep it indoors or in enclosed areas instead.

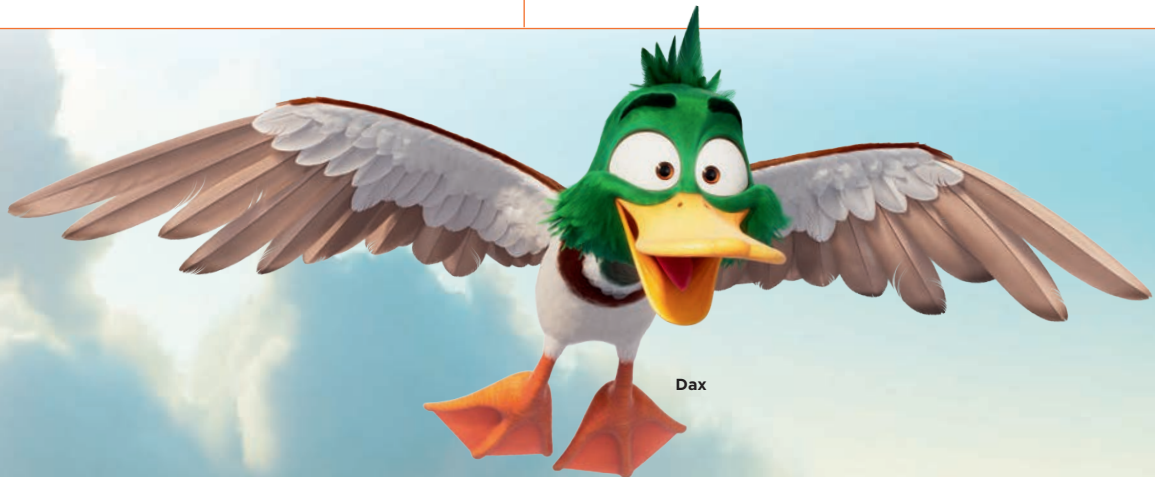
Answer 3: Cat

Question 4: If you leave this kind of pollution behind it ruins bird habitats for years because it doesn't break down naturally. Birds can also mistake it for food. What is it?

Answer 4: Plastic pollution

Question 5: What rule is important to remember about feeding wildlife?

Answer 5: Don't feed wildlife. Human foods can make them sick.



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JUST FOR FUN

(Complete the Bird Idioms)

Question 1: Birds of a feather...

Answer 1: flock together

Question 2: Bird's eye...

Answer 2: view

Question 3: A little birdie...

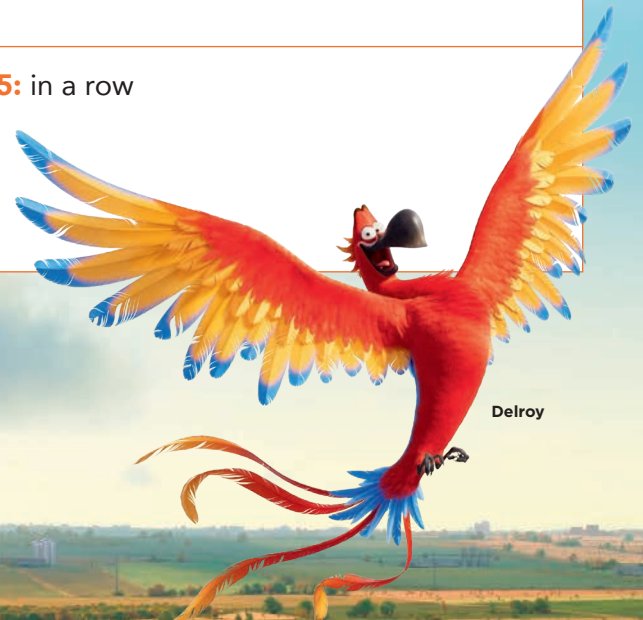
Answer 3: told me so

Question 4: The early bird...

Answer 4: catches the worm

Question 5: Get your ducks...

Answer 5: in a row



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