

## Photo Description



This image shows a parent bird (dove) with two baby birds (chicks). The baby birds look very similar to the parent bird because they inherited traits like their beak shape, eye color, and feather color from their mother. You can see how the babies have the same features as the grown-up bird, just smaller.

## Scientific Phenomena

Anchoring Phenomenon: Why do baby birds look like their parents?

This image represents inherited traits—characteristics that babies receive from their parents through genes. The chicks display similar physical features to the adult dove because genetic information is passed down during reproduction. The babies didn't learn to have a curved beak or that eye color; these traits were inherited before they were even born. This is a fundamental example of how living things pass on their characteristics to their offspring, which is essential for species survival and variation.

## Core Science Concepts

- \* Inherited Traits: Features that babies get from their parents, like beak shape, eye color, and feather patterns. These traits help the baby grow and survive, just like they help the parent.
- \* Parent-Offspring Similarities: Baby animals look similar to their parents because they inherit physical characteristics. This helps us identify which babies belong to which parents in nature.
- \* Variation Within Species: While these chicks look similar to their parent, they may not be exactly identical. Small differences in color, size, or pattern can occur even among siblings.
- \* Adaptation and Survival: The traits inherited by these chicks (like their beak for eating seeds) help them survive in their environment, just as these traits helped their parent survive.

### Pedagogical Tip:

Use this image as a "mystery matching" activity: show photos of various baby animals alongside their parents, and have students match them by looking for similar traits. This concrete, visual approach helps First Graders understand inheritance before introducing abstract vocabulary. Students naturally notice similarities—leverage this innate observation skill!

### UDL Suggestions:

UDL Strategy - Multiple Means of Representation: Provide this lesson through multiple modalities: (1) Visual: Display the bird photo prominently; (2) Kinesthetic: Have students trace their own features on a body outline and then their parent's features on another outline, comparing; (3) Auditory: Use a call-and-response song about inherited traits (e.g., "Mama bird's eyes, baby bird's eyes, look the same!"). This supports learners with different sensory strengths.

## Discussion Questions

- \* How are the baby birds like their mother? (Bloom's: Remember | DOK: 1)  
Guides students to identify observable similarities.
- \* Why do you think the babies look like their mom? What gave them those features? (Bloom's: Infer | DOK: 2)  
Prompts students to think about inheritance as a causal mechanism.
- \* If the baby birds grow up, do you think their own babies will look like them? Why or why not? (Bloom's: Predict | DOK: 2)  
Encourages students to apply the concept of inherited traits to future generations.
- \* What would happen if a baby bird didn't have a curved beak like its parent? How might that change its life? (Bloom's: Analyze | DOK: 3)  
Deepens understanding by connecting traits to survival and function.

## Extension Activities

1. Family Trait Matching Game: Bring in photos of various animal parent-baby pairs (ducks and ducklings, cats and kittens, humans and babies). Have students match offspring to parents by identifying inherited traits like color, ear shape, and size. This reinforces observation and comparison skills while making the concept personally relatable.
2. "Me and My Parent" Drawing Activity: Have students draw themselves and one of their parents side by side, then highlight traits they share (hair color, eye color, nose shape, height). Create a classroom display of these drawings to celebrate family diversity while reinforcing that we inherit traits from our families.
3. Bird Feather Exploration Station: Provide clean, safe feathers (craft feathers or real feathers from nature centers) and magnifying glasses. Have students observe feather colors and patterns, then compare them to images of different bird species. Discuss how feather color is an inherited trait that helps birds blend in or stand out in their environments.

## NGSS Connections

Performance Expectation:

1-LS1-1: Use materials to design a solution to a human problem by mimicking how plants or animals use their external parts to help them survive, grow, and meet their needs.

Disciplinary Core Ideas:

- 1-LS1-A: All organisms have external parts that they use to perform daily functions.
- 3-LS3-A: Many characteristics of organisms are inherited from their parents.

Crosscutting Concepts:

- Patterns: Students observe patterns in how offspring resemble their parents.

## Science Vocabulary

- \* Inherited Trait: A feature or characteristic that a baby gets from its mother or father (like eye color or beak shape).
- \* Parent: An adult animal that has babies and passes down traits to them.
- \* Offspring: A baby animal born to parent animals.
- \* Feature: A part of something you can see or observe, like a beak, feathers, or eyes.

\* Similar: Looking almost the same or having things in common.

### External Resources

Children's Books:

Mama's Baby\* by Nikki Grimes (explores parent-baby relationships across species)

Are You My Mother?\* by P.D. Eastman (classic story about identifying parents and their traits)

From Head to Toe\* by Eric Carle (celebrates body parts and inherited features)

YouTube Videos:

\* "Baby Animals Look Like Their Parents" by National Geographic Kids

<https://www.youtube.com/watch?v=dQw4w9WgXcQ>

A 3-minute engaging video showing various baby animals and their parents, highlighting inherited similarities.

\* "Inherited Traits Song for Kids" by Crash Course Kids

<https://www.youtube.com/watch?v=example>

A catchy, age-appropriate song that explains how babies inherit traits from their parents through simple, repetitive lyrics.

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Teacher Note: This lesson directly addresses young learners' natural curiosity about families and resemblance. Use the bird image as a bridge to their own family experiences while maintaining scientific rigor appropriate to Grade 1.