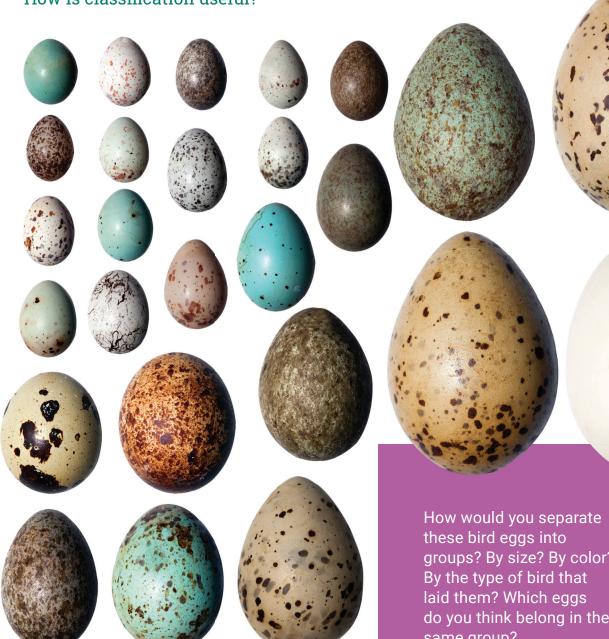
## **CHAPTER 11: CLASSIFICATION**

Classification is the organization of items into groups based on similarities and differences.

Where have you seen items classified into groups? How is classification useful?



groups? By size? By color? do you think belong in the same group?









## WHY CLASSIFY?

When we **classify** items, we group them based on their similarities and differences. Classification keeps things organized. Think about the last time you visited the grocery store. How are foods grouped? By size? By color? Alphabetically? Or some other way?





## DISCUSSION:

Why don't grocery stores group foods alphabetically?

Foods in a grocery store, medicines in a pharmacy, and books in a library are grouped together in a way that makes it easier to find what you're looking for.



Do you think a chef would call the foods pictured above fruits or vegetables? Explain.

Scientists classify gemstones, animals, stars, clouds, trees, and lots of other things. This helps them find meaningful patterns and connections. Items that are similar in one way are often similar in other ways. We can study the similarities between groups of living things to make predictions.





- 3 Prey animals are more likely to have:
  - Eyes that face forward
- Eyes that face to the sides
- 4 Which of the animals below is most likely a predator? (Check one.)







Animals that have side-facing eyes can see more of what is around them, which is useful for spotting a hungry predator. Animals with forward-facing eyes have sharper vision directly in front of them, useful for chasing prey.

Forward-facing eyes also make it easier to estimate how far away objects are.

## DISCUSSION:



Some tree-dwelling animals that are not predators have forward-facing eyes.

Besides hunting, what are some other ways forward-facing eyes might be useful?



