

Name: _____

ANALYZE A SCIENTIST'S STEPS

Scientists follow steps—often called the scientific process—when conducting investigations. Read “Why Zebras Have Stripes” (p. 14) to learn about Tim Caro’s research on zebras’ black-and-white patterns. Then fill in the graphic organizer below to analyze how Caro used the scientific process.

STEP 1: The first thing a scientist usually does is ask a question. What question did Tim Caro want to answer?



STEP 2: Next, a scientist makes a *hypothesis*, or a prediction, about a possible answer to the question. What predictions did scientists have about why zebras have stripes?

What was Caro’s hypothesis?



STEP 4: Scientists then analyze the data they have collected and try to make a conclusion. It is important to describe why the evidence supports a conclusion. What conclusion did Caro make about zebras’ stripes? Explain how Caro’s data supported his conclusion.



STEP 3: Scientists then carry out an investigation to collect data that could help them determine if their hypothesis is supported by evidence. Describe Caro’s investigation.

What data did Caro collect during his investigation?