

**Student Comprehension Worksheet**

**Directions:** Please read the online *Science News* article "[Baseball's home run boom is due, in part, to climate change](#)," and answer the following questions. A version of the article, "Climate change spikes baseball homers," appears in the May 6 & May 20, 2023 print issue of *Science News*.

- 1. What is sabermetrics? How can sabermetrics be used?**
- 2. In one sentence, state the scientific question Dartmouth's Christopher Callahan and his colleagues asked in their research.**
- 3. In what ways did researchers investigate the relationship between the increase in temperature and the increase in home runs, and what did they find?**
- 4. What factors did researchers control for in their studies? Were there factors that the researchers could not control for given the study design?**
- 5. Explain why it makes sense that as air temperature increases, more home runs are hit. From the article, extrapolate the chain of cause and effect.**
- 6. How could MLB mitigate the effects of climate change on the game?**
- 7. What questions do you still have about the research described in the article?**
- 8. What's another scientific question you could ask using sabermetrics?**