

**Student Comprehension Worksheet**

**Directions:** Read the online *Science News* article "[How climbers help scientists vibe with Utah's famous red rock formations](#)" and answer the following questions. A version of the article, "Climbers help scientists vibe with Utah's rocks," appears in the April 23, 2022 issue of *Science News*.

- 1. Who is Kathryn Vollinger? Who is she collaborating with?**
- 2. What scientific equipment does Vollinger carry when she climbs? What data does she collect and when?**
- 3. Why is that data important to scientists? What role does Vollinger play in the research and why do scientists need her help?**
- 4. Who else is the data important to? Why?**
- 5. What is a fundamental frequency? What are the units of measurement?**
- 6. What did the data Vollinger collected reveal about the fundamental frequencies of the rock formations?**
- 7. How are scientists using computer models to study the rock formations?**
- 8. Aside from help from rock climbers, how might data on the vibrations of rock formations be collected in the future?**