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?