## **Student Comprehension Worksheet**

**Directions**: Read the online *Science News* article "<u>Grainy ice cream is unpleasant. Plant-based</u> nanocrystals might help," and answer the following questions. A version of the article, "Cellulose helps ice cream go down smooth," appears in the May 7, 2022 & May 21, 2022 issue of *Science News*.

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1. Why does ice cream sometimes develop a grainy texture?
2. How do ice cream manufacturers currently keep ice cream from getting grainy? How well does this solution work?
3. What new potential solution are scientists investigating?
4. In your own words, describe food scientist Tao Wu and colleagues' experimental setup. What did they use as a substitute for ice cream in their study, and what were the components of each test solution?
test solution:
5. What did the experiments reveal?
6. What does food engineer Richard Hartel say about the findings? Why do you think the author of the <i>Science News</i> article included Hartel's perspective in the story?