





Date: \_\_\_\_\_ Class: \_\_\_

## **Aerogel Pre/Post-Quiz**

- 1. What is the engineering design process? Explain.
- 2. What is an aerogel?
- 3. What are aerogels made from?
- 4. What are some chemical, physical, mechanical, etc. properties of aerogels?
- 5. What are aerogels used for?
- 6. In 1-2 sentences, tell how aerogels are made.
- 7. For what purposes are they currently being studied?
- 8. How else could aerogels be used? Explain. (Discuss the chemical, physical, mechanical, etc. property that leads to the use.) How could they be used to improve your life?





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- 9. What are the current challenges facing scientists/engineers with aerogels?
- 10. What is an emulsion? What is a common emulsion?
- 11. What is an emulsifying agent (emulsifier)?
- 12. What does it have to do with aerogels?
- 13. How do you anticipate using the following in this project? (At the end of the project, you will be asked specific instances where you used these skills.)
- Critical thinking:
- Perseverance:
- Creativity:
- Collaboration:
- Communication:
- Conflict Resolution: