

Name:

Date:

Class:

## Real-World Connection Sheet

The growing use of vaping products, especially among adolescents, has raised concerns about the safety of the chemical additives used in e-liquids. Recent research has begun to investigate how these additives affect lung surfactants, the substances that help keep the lungs functioning properly by reducing surface tension in the alveoli. Early findings suggest that certain additives, such as vitamin E acetate and some flavoring agents, may interfere with surfactant function, potentially leading to impaired breathing and lung injury. This area of study is critical for understanding the full respiratory impact of vaping beyond nicotine exposure.

1. How did the additives in the candy melts affect the performance of it coating your treat?

2. How does surfactant work in your lungs?

3. What do additives in vape liquid do to the surfactants in your lungs?

4. List two ideas to prevent/fix this real-world problem of vaping lung injury.

5. How did you feel about the lesson as a whole? What did you learn? What suggestions do you have to improve the lesson?

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