

Liquid Nitrogen Demos Quiz

1. What happened to the balloons when they were placed in the nitrogen? Why?
2. What gas law was demonstrated when the balloons were placed in the nitrogen? Which two variables are involved with this law?
3. How do we prevent tires from freezing in the winter like the racquetball did in the nitrogen?
4. What happens to the cells in the banana when it is placed in nitrogen? What is this process called when it happens to humans?
5. Why was the ice that was formed in the “air conditioner” mug white?
6. What is the purpose of the vacuum in the Dewar flask?
7. Why does the lid sit loosely on top of the metal Dewar?

8. What color does oxygen appear to be when it is in its gas form? What color does it appear to be in its liquid state? Explain.

9. What would happen if you tried eating something like a chocolate bar after freezing it in nitrogen?

10. Were the marshmallows easy to eat after being placed in nitrogen? Why?

11. Why do most people believe that methane is a scented gas, when it is actually odorless?