

Pre-Lab Questions

1. According to Charles' Law, are volume and temperature directly or inversely proportional to one another?
2. How are you going to make sure that the pressure remains constant through the experiment?
3. Why do you apply silicone grease on the plunger?
4. Assuming there is no experimental error, how would the volume readings change, if at all, if you were placing the syringe in the baths in reverse order (starting with the one with the highest temperature)? Explain.
5. Why do you think you have to cap the syringe?
6. Why do you think you cannot start with a syringe set to 0 mL?
7. What would be the reading with the correct number of significant figures in the syringe shown?

