FLINN SCIENTIFIC

Name_____

AP Physics 2 Review Questions

Integrating Content, Inquiry, and Reasoning

1. Why is it necessary to account for atmospheric pressure when carrying out your experiment?

2. You may or may not have lubricated the syringe prior to carrying out your experiment. How would adding a lubricant, to promote easier movement of the plunger, impact your results?

3. Describe two sources of error and the effects each had or may have had on your experimental data.

4. Is it reasonable to neglect the mass of the plunger and top wooden block in the calculation of the external pressure, or force, applied to the syringe plunger? Explain.

5. Explain how you might derive theoretical numbers, or data, to which you can compare your experimental results.

6. How does the assumption that the air in the syringe is an ideal gas impact this experiment?