

## 12A – VOLUME OF A GAS

### Analysis

Table 1 – Volume of marshmallows

Mark on plunger (mL)	Pressure (kPa)	Volume of marshmallows (mL)	Observation of marshmallows
20 mL			
30 mL			
40 mL			
50 mL			
60 mL			

### Questions

1. What is the relationship between pressure and the size of the marshmallows observed in this investigation?
2. What do your observations tell you about the structure of marshmallows?
3. Do you think the expansion/contraction relationship would be the same for a piece of metal? Why or why not?

4. Design an experiment in which you use three different materials to determine how much the materials expand because of changes to the environment.