

13. Complete the following table for the three experiments in Model 2.

	Experiment C	Experiment D	Experiment E
Independent Variable	# of particles	Temp.	Internal External Pressure
Dependent Variable	Volume	Volume	Volume
Controlled Variable(s)	Temp / I+E pressure	External + Internal Pressure / # of particles	Temp / # of particles

14. Provide a molecular level explanation for the increase in volume among the balloons in Experiment C. (How often and/or how hard are the molecules hitting the sides of the container?)

of molecules ↑, so number of collisions ↑ + Volume along with it

collisions ↑ energy stays the same

15. Provide a molecular level explanation for the increase in volume among the balloons in Experiment D.

Temperature ↑ increasing the kinetic energy of the particles as well
which ↑ collisions thus ↑ pressure

16. Provide a molecular level explanation for the increase in volume among the balloons in Experiment E.

if external forces decrease then it allows internal forces ↑
thus ↑ volume

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C. E. R. Bruce



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