

FOUR-SQUARE QUIZ
The Case of the Mysterious Malady

Divide your paper into four equal parts. Answer the four questions—one in each of the four quadrants.

- 1) Use Avagadro's Law [$PV=nRT$], where P = Pressure, V = Volume, n = number of moles, R = Gas Constant, & T = Temperature] to explain how Freon-22 could be leaking from the unused air conditioner.
- 2) List 3 indoor air pollutants and the most likely source for each.
- 3) List 2-3 symptoms that led you to believe the claim that you defended in the Grand Jury Investigation.
- 4) Use the kinetic theory of gases to explain how Freon got from the leaky air conditioner to Sally's lungs.